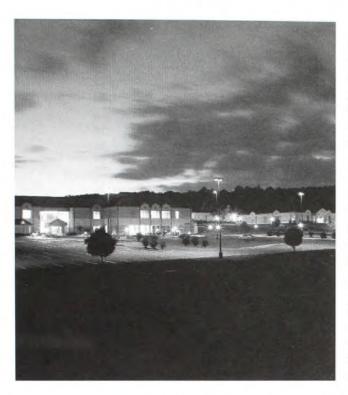
THE HISTORY OF NORTHWESTERN TECHNICAL COLLEGE



Northwestern Technical College was established by an act of the Georgia General Assembly in 1964. The facility was completed in the summer of 1966 with the first students accepted to begin classes in the fall of 1966. Diplomas were offered in eight programs of instruction. Local governance of the school was provided by the Walker County Board of Education. At the time it opened it was called the Walker County Area Vocational Technical School. The College served four counties in northwest Georgia: Catoosa, Chattooga, Dade and Walker Counties. In 1987, the Walker County Board of Education voted to transfer ownership of the school to the Georgia Department of Technical and Adult Education. This transfer became effective on July 1, 1988, and the institution became known as Walker Technical Institute. In 1992, Walker Technical Institute was granted authority to award the Associate of Applied Technology degree in seven programs of study. Today the College offers the AAT degree in 13 programs of study and the diploma in 21 programs of study. In 1998, the College changed its name to Northwestern Technical Institute to more accurately reflect the College's service area. In 2000, Northwestern became known as Northwestern Technical College.

The contents of this catalog do not constitute a contract between Northwestern Technical College and its students on either a collective or individual basis. It represents Northwestern Technical College's best academic, technical, social, and financial planning information at the time the catalog was published. Courses and curriculum changes, modifications of fees, and other changes, plus unforeseen changes in other special aspects of Northwestern Technical College's life sometimes occur after the catalog has been printed but before the changes can be incorporated in a later edition of the same publication. Because of this, Northwestern Technical College does not assume contractual obligation with students for the contents of this catalog.

Northwestern Technical College is an equal opportunity educational institution and welcomes applications for employment and educational programs from all individuals regardless of race, color, religion, sex, disability, age, or national origin. Northwestern Technical College is non-discriminatory on the basis of sex in its educational programs and activities, including employment and admission of students to the college as required by Title IX of the Educational Amendments of 1972 and by rules and regulations based therein and published as 45 CFR, part. 86.

Northwestern Technical College complies fully with the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 and does not discriminate against individuals with disabilities.

NORTHWESTERN TECHNICAL COLLEGE 265 Bicentennial Trail, PO BOX 569 Rock Spring, Georgia 30739 www.nwtcollege.org

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If you are an individual with a disability who may require assistance or accommodation in order to participate in or receive the benefits of the services, programs, or activities offered by Northwestern Technical College, or if you desire more information, please contact us at (706)764-3510.

Northwestern Technical College

General Information and Policies



VISION

Northwestern Technical College is a higher education institution of the Georgia Department of Technical and Adult Education and the primary provider of accessible, high quality educational opportunities in Northwest Georgia. It is an integral component of a seamless educational system offering programs of study that result in the student's achievement of career and personal goals. Northwestern provides educational experiences that produce graduates noted for their excellence as employees and as lifelong learners.

MISSION

The mission of Northwestern Technical College is to offer accessible, high quality educational opportunities that lead to careers in technology, business, and health and human services. The college offers both campusbased and distance learning programs that lead to the certificate, the diploma, and the associate degree. The educational programs of the college focus

on the development of technical competence and critical thinking skills; social, personal, and intellectual values; and an understanding of society. Northwestern Technical College also provides the community with adult literacy, economic development, and personal enrichment programs. The Office of the President and the offices of Student Services, Administrative Services, Academic Affairs, and Economic Development work cooperatively in support of the mission of the college.

LOCATION

Northwestern Technical College is located in Rock Spring, Georgia, on U. S. Highway 27, six miles north of LaFayette, Georgia, and ten miles south of Fort Oglethorpe, Georgia.

ADVISORY COMMITTEES

Advisory committees, composed of outstanding representatives from business and industry, meet with college personnel to make recommendations, offer suggestions, and assist in evaluating programs. Advisory committees meet at least twice a year.

BOOKSTORE

Northwestern Technical College contracts with Interstate Textbook Company to provide a full service book and supply store for students. The "Campus Shop," located adjacent to the cafeteria, carries textbooks, paperback books, office supplies, and other products.

EMERGENCY CLOSING

The President or the Academic Affairs Vice President is authorized to take action to close the college if conditions exist that may threaten the health and safety of students and personnel. The President or the Academic Affairs Vice President is also empowered to delay the beginning of classes and/or release students and personnel before the normal day ends if hazardous conditions exist. Closures or delayed openings will be announced by local radio stations and major Chattanooga area television and radio stations. The college does not announce that it is open.

HEALTH CARE

Any student with a health condition such as diabetes, hemophilia, epilepsy, or any other potentially dangerous ailment should inform his/her instructors and register the problem with the Student Services Office. Applicants must be physically able to attend class regularly and to perform essential class and laboratory functions.

MAIN CAMPUS

The main campus consists of six modern buildings providing administrative offices, faculty offices, classrooms, laboratories, shops, cafeteria, and Library. The campus has over 100,000 square feet of assignable space.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974

The Family Educational Rights and Privacy Act of 1974, with which Northwestern complies fully, was designated to protect the privacy of educational records, to establish the right of students to inspect and review their educational records, and to provide the guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Students also have the right to file complaints with the Family Educational Rights and Privacy Act Office (FERPA) concerning alleged failures by the College to comply with the Act.

DIRECTORY INFORMATION

Directory information is treated as public information and is generally available on all students and former students at the College's discretion. Directory information includes:

name address previous schools attended by the student

awards applied for and/or received

telephone number date and place of birth dates of attendance

degrees

major field of study

honors

age

participation in officially recognized activities and sports

Any student who does not wish directory information disclosed must file a written request with the Student Services Vice President. Questions concerning the Family Educational Rights and Privacy Act may be referred to the Registrar's Office.

STATEMENT OF NON-DISCRIMINATION

Northwestern Technical College is committed to the concept of an open door policy and equal educational opportunity. Northwestern Technical College supports the Civil Rights Act of 1964, Executive Order #1 1246, Title IX of the Educational Amendments of 1972, and Section 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act of 1990. No person shall, on the basis of age, race, religion, color, sex, national origin, or disability be excluded from participation in, or be denied the benefits of, or be subjected to discrimination under any program or activity at Northwestern Technical College.

GENERAL REGULATIONS

It is a basic and fundamental responsibility of the College to maintain order through reasonable policies and procedures. The filing of an application shall be regarded as evidence of the applicant's intention to abide by the standards and regulations of Northwestern Technical College. Students forfeit their right to remain at Northwestern Technical College if they fail to comply. A Student Conduct Code, including a statement on student rights and responsibilities, may be found in the Student Handbook.

STUDENT RESPONSIBILITIES

Students are responsible for being informed of all policies and procedures required for continued attendance at Northwestern Technical College. Policies and procedures are generally found in this catalog and in the Student Handbook. Other policies pertaining to specific student rights and regulations are found in the college Policies and Procedures Manual located in the Library. This document is available for reference at any time. The institution's regulations will not be waived because a student pleads ignorance of established policies and procedures. A student who is unsure of any policy or procedure should seek clarification from the Student Services Office.

CHANGE OF NAME OR ADDRESS

Students are responsible for notifying the Records Office of any change of name or address. The mailing of notices to the last address on record constitutes official notification.

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STATE STANDARDS

As a higher education institution of the Georgia Department of Technical and Adult Education, Northwestern Technical College adheres to the policies, procedures, and achievement criteria as established and presented in the state curriculum standards documents. The standards serve as a benchmark for providing high quality technical training that meets the demands of business and industry not only today, but in the future as the changes in our society continue to alter the nature of the workplace. Standards mean that our educational partners in business and industry can rely on Northwestern Technical College graduates to have the knowledge and technical expertise to perform their jobs to world class standards. GUARANTEE

The Georgia Department of Technical and Adult Education has developed curriculum standards with direct involvement of business and industry. These standards serve as the industry-validated specifications for each occupational program. The standards allow Northwestern Technical College to offer this guarantee: "If one of our graduates who was educated under a standard program and his/her employer agree that the employee is deficient in one or more competencies as defined in the standards, Northwestern Technical College will retrain that employee at no instructional cost to employee or employer." This guarantee applies to any graduate of Northwestern Technical College who is employed in the field of his/her training. It is in effect for a period of two years after graduation. To inquire or to file a claim under this warranty, please call the Academic Affairs Office.

DRUG AND ALCOHOL

Northwestern Technical College prohibits the unlawful possession, manufacturing, distribution, dispensation, and use of illicit drugs and alcohol on the institutional premises or at College sponsored events in accordance with the Alcohol and Drug Free Communities and School Act Amendments of 1989. (Public Law 101-226).

In compliance with the Federal Drug Free Schools and Communities Act Amendments of 1989 (Public Law 101-226), Section 22, Drug Free Schools and Campuses, Northwestern Technical College implements and maintains a drug free program. The Act ensures the prevention of the use of illicit drugs and abuse of alcohol by students. Students indicted for possession or sale of illegal drugs, alcohol, and/or other altering substances will be suspended from school and forfeit all claim to financial aid.

CAMPUS SECURITY POLICIES AND CRIME

Title 11 of Public Law-542 is the Crime Awareness and Campus Security Act of 1990 (the ACT). As a condition of continued participation in the Title IV student financial assistance programs, this Act requires Northwestern Technical College to prepare, publish, and distribute certain policies and information to all current students and employees and to any applicant for enrollment or employment upon request beginning September 1, 1992, and each year thereafter. This includes information on criminal actions or other emergencies occurring on "campus" and the College's response, current policies concerning security and access to "campus facilities," and recent statistics on criminal offenses reported to local police agencies. Northwestern Technical College makes statements of policy regarding the possession, use, and sale of alcoholic beverages and the possession, use, and sale of illegal drugs.

Northwestern Technical College's Campus Security Policy and Crime Statistics Report is distributed to all prospective and current students and employees and is available upon request from the Business Office. Complete statistics are available from the Admissions Office.

HEALTH AND SAFETY

The Northwestern Technical College campus has first aid kits that meet OSHA standards. First aid kits are conveniently located in shops and labs and in public areas in each building. Students are referred to off-campus facilities for treatment of injuries or illnesses. Medical care at off-campus facilities is the student's financial responsibility. The College provides a student accident insurance plan for credit students that is designed especially for students of community and technical colleges. Complete details of the coverage may be obtained from the Registrar's Office.

SEXUAL HARASSMENT POLICY

The Department of Technical and Adult Education does not tolerate sexual harassment. Sexual harassment is a form of sex discrimination and is a violation of state and federal law. It is the intent of the State Board of Technical and Adult Education to provide an academic and work environment free of any type of harassment, including sexual harassment, for all students and employees. Complete information is available in the Student Handbook.

CONDUCT

Northwestern Technical College students have an obligation to assist in making the college an effective place for the transmission of knowledge, the pursuit of truth, the development of self, and the improvement of society. As citizens, students enjoy the freedoms that other citizens enjoy and, in turn, they are responsible for conducting themselves in accordance with the requirements of the law. Students must adhere to all rules, regulations, and policies of the institute and must also adhere to student conduct regulations as published in the Student Handbook that is provided to all students. Students who violate the Student Conduct Regulations are subject to disciplinary proceedings as prescribed in the Student Handbook and other publications for students.

TOBACCO USE POLICY

In the interest of health and to create a tobacco-free environment, the use of tobacco is expressly prohibited in all buildings. Individuals who wish to use tobacco must do so only in designated smoking areas. Designated areas for the use of tobacco products have been established outside of the main building.

STUDENT PARKING

NTC has designated areas for student parking. All full and part-time students are required to display a campus parking permit in the lower left hand section of the rear window of their vehicle and to park in their designated areas. There is no charge for the parking permit; however, not properly displaying a parking permit or parking in an unauthorized area may result in the vehicle being towed. Parking permits are distributed at registration.

WEAPONS POLICY

It is unlawful for an individual to bring to, possess, or have under such person's control, any explosive compound, firearm, or knife designed for the purpose of offense or defense while at a public gathering (O.C.G.A. 16.11.127). Having a license to carry a pistol is no justification under this policy. It is unlawful for any person to carry to or to possess or have under such person's control while within a school safety zone or at a technical College building, function, or property or on a bus or other transportation furnished by any technical College any weapon or explosive compound.

The term "weapon" means and includes any pistol, revolver, or any weapon designed or intended to propel a missile of any kind, or any dirk, bowie knife, switchblade knife, ballistic knife, any other knife having a blade of three or more inches, straight-edged razor, spring stick, metal knucks, blackjack, any bat, club, or other bludgeon-type weapon, or any flailing instrument consisting of two or more rigid parts connected in such a manner as to allow them to swing freely, which may be known as a nunchaku, shuriken, or fighting chain, or any disc of whatever configuration, having at least two points or pointed blades which is designed to be thrown or propelled and which may be known as a throwing star, oriental dart, or any other weapon of like kind, any stun gun or laser. "Weapon" does not include any fireworks the possession of which is regulated by Chapter 10 of Title 25 of Georgia Law.

This policy exempts law enforcement officers, judges, magistrates, solicitors, district attorneys, and employees of the department of corrections, or employees of local or federal correctional facilities who are authorized to carry a firearm. Also exempt are persons employed as campus police or security officers who are authorized to carry a weapon in accordance with Chapter 8, Title 20, and private detectives/security agents who hold firearms permits issued by the Georgia Board of Private Detectives and Security Agencies. Also exempt is any legal weapon carried in a locked container, locked compartment or locked gun rack in a privately owned vehicle. An employee or student found in violation of this policy shall, in addition to any criminal action taken, be subject to dismissal from the College or termination of employment as determined by the President.

SEXUALLY VIOLENT OFFENDERS

Residents of Walker County may obtain information regarding registered sexually violent offenders from the Walker County Sheriff's Office. Residents of surrounding counties may contact their local sheriff's department or visit: www.ganet.org/gbi/.

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Student Services



The Student Services Program assists students in developing the attitudes and abilities needed to be successful in the occupations they plan to enter.

ORIENTATION

In order that new students may be fully informed and aware of all phases of college life, a program of orientation is provided at the time of placement testing and at registration. For online students the orientation program may be downloaded from the college web site. Orientation includes an orientation packet and video explaining the school rules and policies, and a briefing on Student Services. New students, all returning students, and online students who have not attended for one year are required to attend orientation.

CAREER EXPLORATION

The professional career counseling staff provides personal career counseling, various career interest assessments, computerized career guidance, and program selection. Located in the testing center, the service is free and open to the public. Any adult who is interested in making a change in career direction should contact the center to make an appointment to receive testing and counseling and to take advantage of other resources designed to give information and support.

CAREER PLANNING

Northwestern Technical College provides career planning for prospective students who need assistance in choosing a program of study and are not sure how to get started. A personal career planner is available to answer questions about programs of study, admissions, financial aid, registration, classes, and job placement. This service is free to the public. Any adult wishing to add value to his or her life through education may contact the Admissions Office to make an appointment with a Career Planner.

COUNSELING

Northwestern Technical College provides professional counseling services for students who need assistance with school-related problems.

SERVICES TO STUDENTS WITH DISABILITIES-ADA

A special needs counselor is available to those students with disabilities who may need individual educational plans, specialized equipment, books, or referral services. It is the student's responsibility to inform the counselor of their special needs requirements.

JOB PLACEMENT

The Job Placement Office assists students in selecting appropriate employment upon completion of their program of study. Some assistance may be given for part-time work while attending school. Placement office services are available for all current and former students. The successful placement of graduates is one of the major goals of the College.

FOLLOW-UP

The follow-up program maintains contact with former students in the employment field. The data collected from graduates and their employers assists Northwestern Technical College in meeting its training objectives and developing up-to-date curricula for its courses of study.

SERVICES FOR SPECIAL POPULATIONS

Northwestern Technical College is committed to providing technical education to students with special needs through the special populations assistance program. The two primary purposes of the program are:

- 1. To improve the educational development of the special populations students, and
- 2. To improve the understanding and support at the campus environment.

Special populations students are those special needs students who are academically and/or economically disadvantaged or are physically and/or mentally disabled as defined under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 and as defined by Carl Perkins Vocational Applied Technology (who are national origin minority students with limited English language skills and non transitional students).

Students attending Northwestern Technical College who have special needs should contact the ADA Coordinator in the Student Services Office for counseling and initiation of intervention strategies. To insure equal access and equal opportunity for all students, Northwestern Technical College provides access to the following services:

Disadvantaged/Developmental Services Students with Disabilities Sex Equity Services Single Parent, Displaced Homemaker Services Financial Aid Services Fatherhood Program Community Based Organization Services WIA Services
Welfare to Work
Limited English Proficiency Services
Vocational Rehabilitation Services
Northwest Georgia Career Depot
(One-Stop Shop)
VOCARE Program

VETERANS EDUCATIONAL SERVICES

Northwestern Technical College assists armed services veterans and other students eligible for veterans educational benefits from the Veterans Administration (VA). The Financial Aid Office coordinates with other campus offices to provide assistance and counseling. The veteran should be prepared to sustain initial school costs since benefits will not begin for several weeks after enrollment. Students receiving VA benefits must adhere strictly to a planned program of study as indicated on their appropriate school and VA forms. Program changes are to be reported promptly on appropriate VA forms through the Financial Aid Office. All students receiving VA educational benefits are also required to report changes in course load, withdrawals, or interruptions in attendance to the Financial Aid Office to minimize personal liability resulting from over-payment of VA benefits. All students receiving VA educational benefits are required to complete a veteran data sheet at each registration to insure proper school certification for that respective quarter.



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Student Organizations and Activities



The following activities are available to Northwestern Technical College students.

BAPTIST STUDENT UNION

Baptist Student Union (BSU) is a student-led organization that attempts to meet the spiritual needs of the college community. The BSU hosts a weekly non-denominational luncheon on campus at Northwestern. There are also opportunities for students to be involved in regional activities such as mission projects, retreats, and fellowships throughout the quarter. All students are welcome to attend.

COMPUTER CLUB

The Computer Club at Northwestern Technical College was created to serve the entire college community by promoting student exploration in areas of information technology not traditionally addressed by classes. Membership is open to all students and no previous computer experience is

required to join. The Northwestern Technical College Computer Club maintains its own server and workstation for student usage and conducts a variety of activities including field trips to IT departments of area businesses, participation in the Georgia Fall Leadership Council, exploration of various software products, and is represented at on-campus events.

GOAL PROGRAM

The Georgia Occupational Award for Leadership is recognition sponsored jointly at the state level by the Department of Technical and Adult Education and the Business Council of Georgia. At the local level, the program is sponsored by the Walker County Chamber of Commerce and Northwestern Technical College. The purpose of the program is to give proper recognition to the dignity and importance of technical education in today's economy.

In the Spring, four local winners are selected by a screening committee. Winners are awarded a cash prize. Of the four local winners, one will be selected to represent Northwestern Technical College in the state contest. Grades, attitude, personal goals, and self-confidence are considered in selecting GOAL winners.

NATIONAL VOCATIONAL TECHNICAL HONOR SOCIETY

Students enrolled in a diploma or associate degree program who maintain an average of 3.5 for a minimum of two quarters and who maintain a 3.1 work ethics average are eligible for membership in the National Vocational-Technical Honor Society. The purpose of this organization is to recognize outstanding post secondary technical students. Students are inducted into this organization twice a year.

PHI BETA LAMBDA

Phi Beta Lambda is an organization for students in the Business and Information Technology Division. The local chapter is affiliated with the state Phi Beta Lambda organization and participates in their fall convention each year. Currently, Phi Beta Lambda functions as part of the Computer Club.

STUDENT LEADERSHIP COUNCIL

The Student Council is a volunteer organization made up of volunteer representatives from all occupational programs at Northwestern. This organization works on projects throughout the year to benefit the institution and its students.

Admission Policy

Requirements and Procedures

ADMISSION POLICY

The admissions policy of Northwestern Technical College assures the citizens of Georgia equal access to the opportunity to develop the knowledge, skills, and attitudes necessary to secure personally satisfying and socially productive employment. By design and implementation, the policies and procedures governing admission to Northwestern Technical College will:

- 1. Be nondiscriminatory to any eligible applicant regardless of race, color, national origin, sex, disability, religion, age, or marital status:
- 2. Increase the prospective student's opportunities;
- 3. Guide the implementation of all activities related to admission to NTC and its programs; to student financial aid; and to the recruitment, placement, and retention of students; and
- 4. Complement the instructional program.



ADMISSION REQUIREMENTS

Below are the general requirements for admission into the certificate, diploma, or degree programs. Specific admission requirements are listed for each program in the curriculum section of this catalog. NOTE: All Nursing and Allied Health programs have additional admission requirements.

Age: Applicants for admission must be at least 16 years of age. Applicants for Licensed Practical Nursing, Occupational Therapy Assistant, Patient Care Technician, Pharmacy Assistant, Surgical Technology and the AD Nursing program must be 17 years of age or older. Applicants for Early Childhood Education, Commercial Truck Driving, and Emergency Medical Technician must be at least 18 years of age.

Education: Educational requirements vary according to the particular program of study. All Associate of Applied Technology and all business and medical diploma programs require a high school diploma or equivalent (GED). Prior to graduation from an industrial technology diploma program, all students must have graduated from a high school or hold a GED.

Placement Scores: Applicants for all degree, diploma, and selected certificate programs must take the ASSET placement test or provide official documentation of a course grade of "C" or better in credit-level English and mathematics taken from an accredited college or postsecondary institution; or submit appropriate* ASSET, CPE, SAT, ACT, or COMPASS scores.

ADMISSION PROCEDURES

- 1. Submit an application for admission to the Office of Admissions along with a \$15 non-refundable application fee.
- 2. Submit an official copy of high school or GED transcript.
- 3. Take placement exam or submit SAT, ACT, CPE, ASSET, or COMPASS scores or transfer college credit from an accredited college or post secondary institution.
- Applicants for Licensed Practical Nursing, Medical Assistant, Occupational Therapy Assistant, Surgical Technology, EMT, and AD Nursing are required to complete additional admission procedures.
- 5. An orientation program must be attended by new students. The orientation program is designed to acquaint students with college policies, procedures and services.

*NOTE: Test scores submitted must have been taken within the previous five (5) years. If scores are not available, applicants will be required to take a scheduled placement test.

ADMISSION STATUS

Admission to Northwestern Technical College will be in one of the following categories: Program Ready, Provisional, Developmental, or Special.

Program Ready: All admission requirements have been met. The student is eligible to take all the courses in the curriculum. Regular admission of transfer students is contingent upon their meeting all the regular admission requirements and being in good standing at a regionally accredited diploma- or degree-granting institution.

Provisional Status: Placement test scores indicated a need for skills development in reading, writing, math and/or algebra. Occupational courses may be taken along with the developmental courses prior to gaining regular admission.

Developmental Status: Placement test scores are below a designated level in reading, writing, math and/or algebra. The student should complete developmental studies courses before taking any occupational courses in your program. Applicants who do not have a GED or high school diploma will be referred to the Adult Basic Education program. This program allows students to receive the needed skills at no charge.

Special Status: Applicant not seeking a degree, diploma or certificate but wishing to enroll in a course for personal, consumer or occupational purposes may take up to 25 credit hours before declaring a major. Specially admitted students are not eligible for financial aid.

OFFICIAL DOCUMENTS

Official transcripts, GED transcripts, or other required documents must be sent directly from the issuing school or agency to: Office of Admissions, Northwestern Technical College, P.O. Box 569, 265 Bicentennial Trail, Rock Spring, GA 30739. If brought by the applicant in person, documents must be in an unopened envelope that has been officially sealed by the issuing school or agency.

ASSET PLACEMENT EXAM

The ASSET placement exam is a multiple-choice exam measuring knowledge in language, reading, mathematics, and algebra (scores on the algebra portion may not be required for placement in every program). The purpose of the ASSET is to ensure that a student has the academic skills necessary to succeed in the chosen program of study. Minimum test score requirements are established based on statewide standards. Applicants for all degree, diploma and selected certificate programs must take the ASSET placement exam unless he or she can provide documentation of the following:

- 1. Minimum SAT scores of Verbal 430 and Numerical 400 or minimum ACT scores of Verbal 18 and Numerical 16 for diploma and certificate programs. Minimum SAT scores of Verbal 480 and Numerical 440 or minimum ACT scores of Verbal 21 and Numerical 19 for associate degree programs. Acceptable SAT or ACT test scores must be no more than five years old.
- 2. A course grade of "C" or better in credit-level English and mathematics taken from an accredited college or post-secondary institution.

ABILITY-TO-BENEFIT EXAM

An applicant who does not have a high school diploma or GED and who wishes to apply for federal financial aid, may demonstrate eligibility for entry to those programs not requiring a diploma/GED if the applicant achieves acceptable scores on the Ability-To-Benefit (ATB) examination as well as acceptable program entry scores. Passing the ATB exam does not take the place of having a high school diploma or GED for admission purposes.

TRANSIENT STUDENT ADMISSION REQUIREMENTS

A student in good standing at another accredited institution may be permitted to enroll as a special student on a space-available basis in order to complete work to be transferred back to the parent institution. A transient student will be advised in writing by the parent institution concerning recommended courses.

The transient student must do the following:

- a. Submit an application for admission to the host institution. A transient student will be designated as a special student by the host institution for reporting purposes.
- b. Present a statement from the Registrar or Academic Dean of the parent institution to the effect that the student is in good standing, is program ready, and is eligible to return to that institution. Note: The 25-hour credit maximum may be waived for the student upon the recommendation of the parent institution.
- c. Pay scheduled fees of the host institution.

TRANSFER STUDENT ADMISSIONS

Applicants to Northwestern Technical College who have been previously enrolled in one or more institutions of higher education and who wish to enroll in a credit program will be considered for transfer admission. Applicants for transfer admission must meet the following requirements prior to their planned enrollment.

Transfer applicants shall submit to the Admissions Office:

- 1. A completed application form.
- 2. A \$15.00 non-refundable application fee.
- 3. An official high school transcript or GED diploma. If an applicant has an associate or bachelor's degree, a high school transcript is not required. (Exception: A high school transcript is required for all nursing and allied health applicants).
- 4. Official transcripts from previous institutions of higher education attended that document coursework for which applicants seek credit with a passing grade of C or better.
- 5. Satisfactory scores on the ASSET Placement Test, SAT, ACT, or COMPASS.

With the exception of LPN students, a student who has satisfactorily completed with a "C" grade or better transferable English or mathematics courses may be exempt from taking the placement examination. These courses must be equivalent to the entry level English and math courses required in the applicant's chosen program of study.

A transfer student is admitted to Northwestern Technical College:

- 1. In good standing if the student was in good standing at the former institution.
- 2. On probation if the student was on probation at the former institution. A student admitted on probation must earn a GPA of at least 2.0 on a minimum of five quarter hours during the first quarter enrolled to continue the next quarter.

Transfer students who are on academic exclusion from their former institution are considered for admission to Northwestern Technical College on the same basis as excluded students from NTC who apply for readmission. Such applicants, if admitted, are admitted on probation as indicated in 2 above. A student admitted on probation must earn a grade point average of at least 2.0 on a minimum of five quarter hours during the first quarter enrolled to continue the next quarter.

TIME LIMITATION FOR PROGRAM COMPLETION

Northwestern Technical College will accept course credits from regionally and nationally accredited institutions of higher education without time constraints. The institution does not limit the amount of time it will honor course work taken at Northwestern. However, at the advisor's discretion, students may be required to repeat course work five years old or older where the course content has changed significantly. There is no minimum amount of time in which a program of study must be completed. Students must take 50% of their program at Northwestern Technical College; however, the typical minimum program length is listed in the Curriculum section of this catalog.

RE-ADMISSION OF FORMER STUDENTS

Students who are absent from Northwestern Technical College for one full quarter or more, exclusive of summer quarter, will be required to complete the following:

- 1. Submit a completed application form to the Admissions Office.
- 2. Meet the Northwestern Technical College General Catalog admission requirements in effect at the time of readmission.
- 3. Submit official transcripts from all institutions of higher education attended since the last enrollment at NTC.

A student who withdraws in good standing during a quarter may return the following quarter without completing a new application for admission.

SENIOR CITIZENS

Residents of Georgia who are 62 years of age or older may request a waiver of tuition. This policy applies to regular and institutional credit courses only. It does not apply to continuing education courses, non-credit courses, or seminars. If tuition is waived under this policy, admission will be granted only on a space available basis. Senior citizens must meet all other admission requirements as specified in the catalog and pay mandatory fees.

POSTSECONDARY OPTIONS STUDENT (PSO)

Under the postsecondary options program, a part-time student may attend Northwestern Technical College while also attending public high school. The student may receive Carnegie unit credit from a public high school and postsecondary credit hours from Northwestern Technical College for the same course. The student must adhere to the following admission regulations:

- 1. Be at least 16 years of age or classified as a junior or senior.
- 2. Complete an application for admission and pay a \$15 (non-refundable) application fee.
- 3. Present a joint enrollment/post secondary options application from the public high school with appropriate signatures.
- 4. Submit an official copy of high school transcript.
- 5. Meet all testing requirements for Regular Admission status where applicable.
- 6. Present the Georgia PSO Tuition Grant Form at the time of registration each quarter and pay mandatory fees.

NOTE: A student attending public high school full-time (all day) is not eligible for the PSO program. PSO students are not eligible for the HOPE Grant.

DUAL ENROLLMENT

Several area high school students take advantage of dual enrollment at their high school and at Northwestern Technical College. Dual enrollment students are able to take a wide range of classes from Northwestern Technical College through a variety of different methods. For more information, contact the Admissions Office.

ARTICULATED CREDIT

Applicants to Northwestern who have successfully completed an articulated course from a Georgia high school are eligible for articulated credit. Credit awarded as part of a high school articulation agreement must be validated by the credit by examination process in place at Northwestern. Students desiring credit for articulated courses should contact the Registrar at Northwestern.

OUT-OF-STATE STUDENTS

Out -of-state students will be enrolled only on a space available basis. Georgia residents are given preference. To be classified as an in-state student for tuition purposes, an individual must show that he/she has been a legal resident of Georgia for a period of no less than 12 months immediately preceding the date of registration. Proof of residency can be documented by a voter registration card, an automobile registration, or a house or apartment lease agreement.

Out-of-state students may be charged tuition fees twice that charged for Georgia residents. Northwestern Technical College does not charge out-of-state tuition to students living in out-of-state counties contiguous to the College's service area.

POLICY ON INTERNATIONAL STUDENTS

It is the policy of the Department of Technical and Adult Education that VISA status is not a condition for admissions to DTAE technical colleges; however, prospective students must meet the state approved admissions requirements as outlined for all students. While VISA status is not a condition for admission, it is critical information that may be collected for effective student advisement and tuition purposes. International students seeking admission to Northwestern Technical College must meet the following requirements in addition to the admission procedures for new students:

- 1. Furnish an official English translation and evaluation of secondary records and transcripts showing passing scores on native secondary school examinations and completion of the equivalency of a United States secondary school education.
- 2. Submit Test of English as a Foreign Language (TOEFL) scores. A minimum score of 500 is required to meet the English proficiency requirement.
- 3. Provide SAT, ACT, or ASSET Scores.
- 4. Pay all costs in full when registering for courses if not eligible for financial aid.
- 5. Present to the Admissions Office (for photocopying) the original document certifying immigrant or non-immigrant status (resident alien card, Form 1-94, refugee card, etc.) for advisement purposes.
- 6. Foreign and out-of-state students shall be enrolled only on a space available basis and shall not displace any eligible student desiring to enroll who is a resident of Georgia.
- 7. Foreign students pay four times the tuition required for Georgia residents; this applies to non-immigrant personnel. Foreign immigrants who are permanent residents shall pay the same as citizens of Georgia.

Financial Information

APPLICATION FEE

Students applying for admission to any credit course must pay a one-time non-refundable application fee of \$15.00.

TUITION

All credit students will be assessed fees at the rate of \$26.00 per credit hour. A student registering for twelve (12) or more credit hours will be considered a full-time student and will pay \$312.00 for credit programs (tuition subject to change).

REGISTRATION FEE

All students pay a quarterly registration fee of \$25.00.

ACTIVITY FEE

All students pay a quarterly activity fee of \$15.00.

LATE REGISTRATION FEE

Students not registering on or before the starting date of the quarter will be charged a \$20.00 late fee.

CHALLENGE EXAMINATION FEE

Students who wish to receive credit by exam will be charged a \$25.00 challenge fee for each class they challenge. For more information, please read the Credit by Examination section under Academic Policies in this catalog.

ACCIDENT INSURANCE

Accident insurance costing \$4.00 is included in mandatory fees. Any student taking one or more credit classes is covered by student accident insurance.

BOOKS

Textbooks can be purchased in the bookstore. The bookstore buys back used textbooks during finals week each quarter. The buy back price is set by the bookstore management and is based on the condition of the book, the edition, and the need for the book next quarter.

GRADUATION FEE

There is no graduation fee. Caps and gowns may be purchased from the bookstore. It is the student's responsibility to submit an Application for Graduation form to the Registrar.

REFUND POLICY

Northwestern Technical College can refund 75% of the tuition paid if the student formally withdraws within seven consecutive calendar days, including holidays, from the first day of class. No refunds will be issued after this date. Formal withdrawal prior to the first day of class will result in a 100% refund. Application fees are not refundable. To receive a refund on any fees paid, the student must initiate the refund proceedings by furnishing a receipt and completing and signing the Refund Request Form. These forms are available in the Records Office.

TOOLS

Some programs require that students furnish hand tools. These are areas where a person is expected to have tools upon employment. The required tools may not constitute a complete set but will be adequate to begin work in the field of study.



TRANSCRIPT FEE

A fee of \$2.00 will be charged for transcripts. To obtain a transcript, a request must be made in writing to the Registrar. Transcripts may not be requested by telephone.

SENIOR CITIZEN WAIVER

Qualified senior citizens, 62 years of age or older, pay application, activity, and other fees if applicable. Tuition is waived. Senior citizens will be enrolled on a space available basis.

REPLACEMENT OF STUDENT ID

Lost or damaged student identification cards for the current quarter may be replaced in the Registrar's Office at a charge of \$2.00.

DECLINED PAYMENT OF CHECKS

A check taken in payment of fees which is returned unpaid will cause the assessment of a non-refundable charge of \$10.00. A financial "Hold" will be placed on the student's record when a check is returned unpaid and the student will be notified of the hold. Checks may also be subject to a collection fee. Northwestern Technical College will withhold grades and transcripts until the returned check and the charge are collected. Students will be withdrawn from class if the fees are not paid.

REPLACEMENT DIPLOMA

Replacement diplomas are available from the Registrar's Office. There is a charge for this service.

INDEBTEDNESS

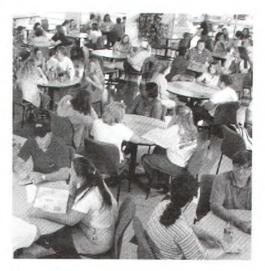
It is expected that every student will discharge any indebtedness to the College as quickly as possible. No degree or diploma will be conferred nor any record or transcript issued to a student who has not made satisfactory settlement with the Business Office for all of his/her indebtedness to the College. A student may be prohibited from attending classes or taking final examinations after the due date of any unpaid obligation.



Financial Aid

Northwestern Technical College recognizes that some students need financial assistance. Students at Northwestern Technical College can look to several areas for financial aid: Federal Pell Grants, Federal Supplemental Educational Opportunity Grant (FSEOG), the Georgia LEAP Program, the HOPE Scholarship Program, Federal Work Study, Foundation scholarships, and the Job Workforce Investment Act (WIA).

To be eligible for most financial aid, a student must demonstrate ability to benefit from the course of study or have a high school diploma or equivalent (GED). Students must be accepted into a degree, diploma, or certificate program at the College to be eligible. For most students the Free Application for Federal Student Aid and the Northwestern Technical College Financial Aid Application must be completed each academic year to be considered for any assistance. The Financial Aid academic year begins Summer Quarter and the applications are available in January (six months prior to the start of the summer term). Students may pick up applications in the Admissions or Financial Aid offices or call the college and request an application by mail.



Students should complete the Free Application for Federal Student Aid (FAFSA) and mail it to the needs analysis processor at least two to three months before their anticipated enrollment date. Also, the FAFSA can be completed online at www.fafsa.ed.gov. Applications may be filed throughout the year, but returning students who have not completed all paperwork prior to registration will not have funds available at the beginning of the quarter. Students will receive their Student Aid Report (SAR) four to six weeks after mailing the Free Application for Federal Student Aid. The SAR may be submitted to the Financial Aid Office to determine student eligibility for assistance. After students complete all other required paperwork, they will receive an award notification letter showing the types and amounts of assistance for which they qualify. Students who are eligible to receive a net check (balance of funds left over after paying all tuition and fees) will be notified when they may pick up their check in the Business Office. Please check with the Financial Aid Office for more details on the application process.

ACADEMIC POLICIES FOR FINANCIAL AID

Federal regulations require the institution to establish policies to measure whether students applying for financial aid are in good academic standing and making satisfactory academic progress toward completion of their degree, diploma, or certificate programs.

SATISFACTORY ACADEMIC PROGRESS POLICY

A student is required to maintain satisfactory academic progress to remain eligible for financial aid. Northwestern Technical College uses the following standards to monitor students' progress toward their diploma, degree or certificate. Satisfactory progress has two components, quality and quantity.

Quality

Students must maintain a cumulative grade point average (GPA) of at least 2.0 to remain in good standing. The GPA is monitored at the end of each quarter. A student whose cumulative GPA falls below a 2.0 is placed on financial aid probation for the next quarter. This will allow one quarter to raise the GPA to the satisfactory level. If, after one quarter, the GPA remains below 2.0, the student will lose financial aid eligibility until the cumulative GPA is again at the 2.0 level or higher.

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There are a maximum number of hours that students may attempt in pursuing their area of study. These hours are not to exceed 150% of the hours needed for graduation. For example, if a student is pursuing a diploma in Management and Supervision, which requires 84 credit hours for graduation, he or she is allowed to attempt a maximum of 126 hours and still maintain satisfactory progress. In order for students to graduate within this maximum "time frame" of hours, they are expected to have cumulatively completed at least 66% of their attempted credit hours at the end of each quarter. For example, a student who attempts 15 credit hours his first quarter would be expected to successfully complete 10 hours for that quarter. If the student took 15 more credit hours the second quarter, he would be expected to have completed 20 hours at the end of the second quarter. A student who, at the end of any quarter, has not successfully completed 66% of his cumulative hours attempted, must make up that deficiency the following quarter in addition to the required minimum number of credits for the current quarter. A student who fails to make up the deficiency is no longer considered to be making satisfactory academic progress. Students may reestablish good standing when they have cumulatively completed 66% of their attempted credit hours.

The following grades do not count toward successfully completing a course: "F," "I," or incomplete; "WF," "WP," or "WD," withdrawals; or "IP" in progress. Financial Aid will pay for repeat courses and the repeated courses will be counted in the GPA as any other class. Any combination of the beforementioned grades in any quarter is grounds for automatic suspension. If a grade changes, the GPA will be recalculated and Financial Aid may be reinstated within the same academic year.

Consequences

Probation: If the student fails to meet either the quantitative or qualitative components, the student will be placed on probation for the next quarter of attendance. The student will continue to receive financial aid for his/her next quarter of attendance but he/she must meet both quality and quantity components by the end of that quarter.

Suspension: If the student does not meet the standards by the end of the probationary term, he/she will be suspended from all financial aid.

Policy for Reinstatement of Eligibility for Financial Aid

Students whose GPA is classified as unsatisfactory can reestablish eligibility when the GPA reaches 2.0. and when they have cumulatively completed 66% of their attempted credit hours. It is the responsibility of students to report to the Financial Aid Office when they meet the above requirements.

The above requirements to re-establish financial aid will be made at the student's own expense.

Students will be notified of their failure to make satisfactory academic progress. If the student feels there were circumstances beyond his or her control that kept him or her from maintaining satisfactory progress, he or she may appeal in writing, using a satisfactory progress appeal form, to a review committee. If the student does not agree with the committee's decision, an appeal can be made to the Student Services Vice President whose decision is final. Appeal forms are available from the Financial Aid Office. Students will be notified of the committee's decision within two weeks of submitting the appeal.

FINANCIAL AID APPEAL PROCESS

Students failing to meet the "Academic Policies for Financial Aid" will be notified in writing by the Financial Aid Office. Any extenuating circumstances which influenced the student's academic performance may be submitted in writing on a "Financial Aid Appeal Form" to the Financial Aid Office for consideration. Appeals for unsatisfactory academic progress will be forwarded to the Financial Aid Satisfactory Progress Committee. All final appeals are forwarded to the Student Services Vice President. No financial aid will be disbursed until the financial aid appeal is approved. If the appeal is denied, the student will be responsible for the payment of tuition and fees until the academic policies are met.

REFUND POLICY

A few exceptions to the refund policy exist concerning financial aid recipients. Financial aid will be adjusted for classes dropped or added during the seven-day period. If a student withdraws from the college, the Return of Title IV Funds formula will be used in determining if a refund of federal aid is necessary. If the student has already completed more than 60% of the instructional period, there will be no refund. A copy of the Return of Title IV Funds formula can be obtained in the Financial Aid office.

FEDERAL PELL GRANT (PELL)

Students who demonstrate financial need and are enrolled in an eligible program may be eligible for this grant. The amount of the grant may range from \$400 to \$4,000 per academic year, depending on the level of federal funding, cost of education, enrollment status, and the students' Expected Family Contribution (EFC), which is taken from the Student Aid Report. Complete eligibility requirements are available from the Financial Aid Office.

HOPE SCHOLARSHIP PROGRAM

This state-funded program is available for most Georgia residents attending Northwestern Technical College. The HOPE Scholarship and HOPE Grant pay all tuition and fees for those who qualify. Students pursuing a federal eligible program must complete the Free Application for Federal Student Aid and the Northwestern Technical College Financial Aid Application to apply for the HOPE Program. Students pursuing a certificate program, students with a bachelors degree, or students whose total income is at least \$50,000 must only complete the Northwestern Technical College Financial Aid Application. All students eligible for the HOPE Program will receive a book allowance up to \$100.

FEDERAL WORK-STUDY

This program allows students to work in on-campus jobs and earn money to pay their educational expenses. Students will normally be paid the Federal minimum wage and are paid monthly based on the number of hours worked. Students should apply for Federal student aid initially and their eligibility for College Work-Study will be determined from their Student Aid Report. Students should contact the Financial Aid Office for more details.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (SEOG)

A Federal Supplemental Educational Opportunity Grant (FSEOG) is for undergraduates with exceptional financial need, that is, students with the lowest Expected Family Contributions (EFC) and give priority to students who receive Federal Pell Grants. An FSEOG doesn't have to be paid back. There is no guarantee every eligible student will be able to receive an FSEOG; students may be awarded an FSEOG based on the availability of funds.

REHABILITATION SERVICES

Vocational Rehabilitation cooperates with Northwestern Technical College by providing financial assistance to students who have disabilities and who qualify for Vocational Rehabilitation.

VETERANS BENEFITS

Veterans benefits are available to qualified veterans and dependents of deceased or disabled veterans. Applicants should contact the Financial Aid Office or their local or regional Veterans Administration Office to obtain applications.

Tuition refunds for students receiving benefits through the Department of Veterans Affairs will be prorated over the length of the course after deduction of a forty dollar (\$40.00) fee.

NORTHWESTERN TECHNICAL COLLEGE FOUNDATION SCHOLARSHIPS

A limited number of scholarships, funded by the Northwestern Technical College Foundation, are available for students who demonstrate financial need or excel in their high school studies. For additional information contact the Financial Aid Office.

WORKFORCE INVESTMENT ACT (WIA)

This is a federal program available to students who qualify based on federal guidelines. This program pays tuition, books, and supplies for full-time students. There is also a travel, meal, and childcare allowance to those qualifying. All persons interested in applying for WIA must first apply for the Federal Pell Grant and/or the HOPE Grant. To apply for WIA, contact the WIA Office at Northwestern Technical College.

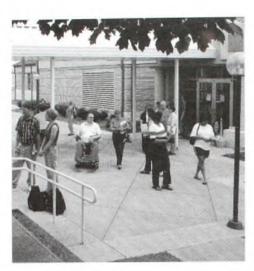
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Community Services



CAREER DEPOT

Employment-related services are available at the Career Depot, a member of the network of One-Stop Workforce Development Centers in Northwest Georgia, including job readiness/job search workshops, resume assistance, video conferencing, career exploration/career counseling, career and aptitude assessment, Internet access for local, state, and national job searches, copier, telephone, fax machines, referral to additional social services, community, and business resources. Caring, friendly, and professional staff are available to assist you with your employment search and training needs.

The Northwestern Technical College Career Depot One Stop is located in Building One, Room 116-A and is partnered with Rehabilitation Services, New Connections to Work, Georgia Fatherhood Program, Southern Appalachian Educational Opportunity Center, and the Department of Family and Children Services. For more information, call (706) 764-3697.

GEORGIA FATHERHOOD PROGRAM

The Georgia Fatherhood Program is sponsored by the Child Support Enforcement Agency to place non-custodial parents into job or training leading to permanent jobs. Several path options are open through this program. If you or someone you know has an active case with the Child Support Enforcement Office located on Highway 27, Rock Spring GA, contact the Lookout Mountain Judicial Court Child Support Enforcement Office for referral or call (706) 764-3726 for more information. The Georgia Fatherhood Program evening hours are Tuesday and Thursday 4:30 PM. - 8:30 PM.

SOUTHERN APPALACHIAN EDUCATIONAL OPPORTUNITY OUTREACH CENTER

The Southern Appalachian Educational Opportunity Outreach Center is in the Career Depot and provides free career and educational guidance, assistance with college admission, and financial aid counseling. Help with GED/high school completion and vocational/technical training information is also available. Services are available for Georgia and Tennessee adult residents in Walker, Dade, Catoosa, Hamilton, and Marion Counties. Call (706) 639 -2065 for an appointment.

SINGLE PARENT/DISPLACED HOMEMAKER PROGRAM, "New Connections to Work"

The New Connections to Work Program assists single parents and displaced homemakers with life planning, career, and employment options. The New Connections Program provides a supportive environment where participants develop a personal plan of action leading to educational and employment opportunities that help participants overcome barriers that prevent them from becoming independent and employable. This is accomplished through workshops and small group seminars that include educational and career opportunities, information on non-traditional job opportunities, and assessing individual aptitude, interest, and work ethics. The program also offers career counseling and the enhancement of coping skills which includes dealing with stress, legal rights, decision-making, study skills, tips for choosing the right day care, assertiveness training, test-taking skills, returning to school, and money/time management. The program has a proven track record of empowering Single Parents and Displaced Homemakers by providing updated labor market and training information, Comprehensive Career Exploration, and Job Readiness/Job Search Activities that prepare its customers for educational programs, interviews and employment. Program services are free. The New Connections to Work is in the Career Depot, Room 116-A, (706-764-3597).

ADULT LITERACY PROGRAMS

The Adult Literacy Program is designed specifically for adults with unique academic and skill requirements. A flexible program of study meets the needs of any individual wishing to participate. Day and evening community literacy classes are offered in Catoosa, Chattooga, Dade and Walker counties. All community-based classes are free.

An individualized plan of study is developed based on an evaluation of skill levels. Level I includes instruction in the areas of reading readiness, basic arithmetic skills, and basic grammar. Level II includes instruction in the areas of reading comprehension, reading in the content areas, mathematics, and language arts. Level III includes instruction that will enable a student to develop the skills necessary to pass the GED Tests. A program for non-readers is available through the Volunteer Tutor Program. The newest service available is the English Language Proficiency Program (ELP) for those adults who need to learn the English Language. English language proficiency classes are available for those students who need to learn English to prepare for the citizenship test. On-site industry classes are also available upon request.

The Test of General Education Development (GED) lets Georgia residents demonstrate the attainment of developed abilities normally acquired through the completion of high school. A GED diploma is issued through the State of Georgia to persons who successfully pass a series of five (5) tests in the areas of Writing Skills, Social Studies, Science, Literature and the Arts, and Mathematics. Persons who have not graduated from high school in the United States or Canada, nor previously earned a GED, and are eighteen (18) years old or older, are eligible to take the test. Underage students who are 16 to 17 years of age may test under certain conditions. Eighteen year old candidates are required to provide a high school withdrawal form. Contact the Adult Literacy Director of Counseling and Assessment for application forms and instructions.

Free classes to prepare adults for this examination are offered on a year round basis at several locations in each county served. The GED test is administered in the Testing and Counseling Center on the main campus at Northwestern Technical College. The fee for the test is \$45.00 and photo identification is required.

For additional information on this program, contact the Adult Literacy Office at (706) 764-3521.

VOCARE PROGRAM

The VOCARE Program prepares out of school youth for a vocation or a career. Program components are chosen to address the specific barriers encountered by out of school youth in their quest for gainful and meaningful employment. Program participants will be involved in the nationally recognized WINGS life skills curriculum, in GED preparation, in career exploration, and occupational skill development.

Program eligibility is determined through the Coosa Valley Regional Development Center. Potential program participants must be between the ages of 16 and 21, along with having formally dropped out of school. Criteria include income level and barriers to employment, among others. Referrals may come through any number of sources, including self-referral.

The program is located in Room 116 at the Career Depot. It is a ten-week program, which generally runs along Northwestern Technical College's quarterly class schedule. Program hours are from 8:30 a.m. to 4:30 p.m.

For more information, call (706) 764-3697.



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Academic Information



	Grades are issued at the end o	f each quarter, using th
followin	g system:	
Grade		Grade Points
A	(90-100) Excellent	4.00
В	(80-89) Good	3.00
C	(70-79) Satisfactory	2.00
D	(60-69) Poor	1.00
F	(Below 60) Failing	0.00
AU	Audit	Not Computed
EX	Credit by Competency Exam	Not Computed
1	Incomplete	Not Computed
IP	In Progress	Not Computed
S	Satisfactory	Not Computed
TR	Transfer Credit	Not Computed
WP	Withdrew Passing	Not Computed
WF	Withdrew Failing	Computed as an "F"
U	Unsatisfactory	Not Computed

"AU" AUDIT - A student may choose to audit a class rather than take it for credit. By auditing the class, the student is anowed to attend class without meeting admission requirements and without receiving a grade or credit. Students who audit a class must pay the regular tuition, admission, and registration fees. Students are not allowed to change from audit to credit once the term has begun. Neither are students allowed to change from credit to audit once the term has begun.

"EX" CREDIT BY COMPETENCY EXAM - Upon request and approval, a competency exam may be administered to a student to determine if the student has already gained mastery of the course competencies. (See Credit by Exam under Academic Policies.) Such a request should be made to the program course instructor. If the student achieves satisfactory performance on the exam, a grade of "EX" will be recorded. The "EX" grade carries no grade points, but credit hours will be given identical to the number of credit hours normally assigned to that course at Northwestern Technical College.

"I" INCOMPLETE - When circumstances beyond the control of a student or an instructor prevent the completion of course requirements during a quarter, an "I" (incomplete) is recorded until the final grade is established. The incomplete is assigned only after the student has made arrangements with the instructor for fulfilling the course requirements. All work must be completed within the first two weeks of the following quarter, or the grade automatically becomes an "F." Extraordinary circumstances may merit an appeal for an extension of time. Extensions of time must be requested by the instructor and approved by the Academic Affairs Office.

"IP" IN PROGRESS - A grade of IP, in progress, indicates the course continues beyond the end of the quarter.

"S" SATISFACTORY - Developmental courses and some credit courses which are held for business and industry may award a grade of "S" for Satisfactory rather than an A, B, C or D grade. A grade of "S" indicates that the student has successfully mastered all of the course competencies. A grade of "S" carries no quality points, but credit hours for that course will be awarded to the student.

"TR" TRANSFER CREDIT - A grade of "TR" indicates that the student has successfully completed the course at another postsecondary institution. A grade of "TR" carries no quality points. The student will, however, receive comparable credit hours at Northwestern Technical College for the credit hours received at the former institution. (See Transcript Evaluations under Academic Information.)

"WP" WITHDREW PASSING - This grade signifies that a student withdrew from school voluntarily with a passing grade after the fifth (5th) class day and before the sixth week of the quarter. It is not computed in GPA.

"WF" WITHDREW FAILING - This grade signifies that a student withdrew from school voluntarily with a failing grade after the fifth (5th) class day and before the sixth week of the quarter. It is computed as an "F" in GPA.

"U" UNSATISFACTORY - Developmental courses and some credit courses which are held for business and industry may award a grade of "U" for Unsatisfactory rather than an "F." A grade of "U" indicates that the student did not master all of the course competencies. A grade of "U" carries no quality points.

GRADE POINT AVERAGE

The grade point average (GPA) is a way of mathematically computing a student's academic performance by assigning a value to each grade, multiplying the value by the number of credit hours in the course, and dividing the product by the total number of hours attempted. It is a standard measure for retention and graduation requirements.

Northwestern Technical College uses a four-point grading system which means that an A grade is assigned a value of four points (sometimes called quality points), a B three points, a C two points, a D one point, and an F zero points. The following is an example of how a grade point average is computed for one quarter.

GPA COMPUTATION

Credit Hours	(Grade & Value	(irade
5	X	В	(3) =	15
5	X	D	(1) =	5
1	X	A	(4) =	4
2	X	C	(2) =	4
4	X	C	(2) =	8
Total: 17				36

The total grade points (36) divided by the total attempted credit hours (17) results in a grade point average of 2.11 (approximately a C average).

QUARTERLY GRADE POINT AVERAGE

The quarterly grade point average is the average of all grades earned in a single quarter.

CUMULATIVE GRADE POINT AVERAGE

The cumulative grade point average is the average of all grades earned at Northwestern Technical College. This average is calculated by dividing the number of hours in all courses attempted in which a grade of A, B, C, D, or F has been received into the number of grade points earned. The cumulative grade point average is recorded on the student's permanent record.

REPEATED COURSES

When a course is repeated, only the last grade received will be calculated in the cumulative GPA. The first grade will, however, still be recorded on the transcript.

WORK ETHICS GRADE

A code of ethics is basic to all cultures, groups, and professions. Ethics provide guidelines for living and performing and serve as the basis for making difficult decisions. Classroom instruction on ethical work standards is, therefore, provided in each course, and students receive the opportunity to practice these ethics in an educational setting before they enter the work place.

Each student is evaluated in terms of his or her work ethic twice each quarter, at midterm and at the end of the quarter. This evaluation is reflected in a separate grade on the student's transcript. Attributes measured as a part of work ethics are attendance, character, teamwork, appearance, attitude, productivity, organizational skills, communication, cooperation, and respect. Students in online classes receive work ethics grades also. Attributes measured are those appropriate to online instruction.

GRADE REPORTS

Grade reports are mailed to students approximately two weeks after the close of a quarter. Grades will not be given out by phone.

GRADE APPEALS

A grade appeal must be made not later than the midterm of the academic quarter following the quarter in which the grade was received. A student wishing to initiate an appeal may obtain a copy of the specific procedure from the Office of the Academic Affairs Vice President.

SATISFACTORY ACADEMIC PROGRESS

Students are considered to be making satisfactory academic progress if they maintain a cumulative grade point average of 2.0 or higher. A cumulative grade point average of 2.0 or higher is required for graduation.

UNSATISFACTORY ACADEMIC PROGRESS

Students are considered to be making unsatisfactory academic progress if they have been placed on academic suspension because of their cumulative grade point average.

ACADEMIC PROBATION AND SUSPENSION

Any student who earns a quarterly grade point average of less than 2.0 will be placed on academic probation during the next quarter of registration and enrollment. A student placed on academic probation must meet with his or her advisor to develop intervention strategies. A student will be suspended for one quarter if the quarterly grade point average falls below a 2.0 for two consecutive quarters. When a student is suspended, that student is not allowed to enroll in classes for the next term. During the first quarter of enrollment after academic suspension, a student is placed on academic probation. A student is removed from academic probation by earning a quarterly grade point average of 2.0 or higher

DROP/ADD PERIOD

A student may drop or add a course without academic penalty within the first seven (7) consecutive calendar days, including holidays and weekends, following the beginning date for any quarter. All schedule changes must be approved by the instructor and the student's academic advisor. To drop or add a class, the student must fill out a change of registration form (obtained in the Records Office) and return it to the Records Office with the appropriate signatures. A student may withdraw from a class after the official drop/add period, but before the sixth (6th) week of the term. Students who withdraw during this time period will be assigned a grade of WP or WF. A student who stops attending class but does not officially withdraw from that class will receive a grade of F.

WITHDRAWAL FROM THE COLLEGE

To officially withdraw from the college, the student must obtain a withdrawal form from the Records Office, complete the form, and return it to that office. Failure to do so may result in a failing grade and/or loss of financial aid.

MERIT LIST

A quarter GPA of 3.5-3.79 with a course load of at least twelve (12) credit hours will place a student on the Merit List for that quarter.

PRESIDENT'S LIST

A quarter GPA of 3.8 or higher with a course load of at least twelve (12) credit hours will place a student on the President's List.

GRADUATION

A student is eligible for graduation when the following requirements have been met:

- 1. The diploma or associate degree seeking student has a high school diploma or has earned a GED.
- 2. The required number of credit hours in the student's program of study have been satisfactorily completed and the student has a minimum cumulative grade point average of 2.0.
- 3. An application for graduation has been filed in the Records Office no later than mid-term, five weeks into the quarter in which requirements are to be completed.
- 4. Program area exit examination has been completed.
- 5. At least 50% of the credit hours required for graduation have been earned at NTC. No more than 50% of the credit hours required for graduation may be earned by transfer of credit, credit by examination, or articulation.

Students who re-enroll in Northwestern Technical College after an absence of twelve consecutive months or more and who are seeking a certificate, diploma, or degree must meet the graduation requirements as stated in the catalog which is in effect at the time of re-enrollment. Students may meet graduation requirements at the end of each quarter. Formal graduation exercises are at the end of Spring Quarter and all graduates are encouraged to participate in the graduation ceremony.

RESIDENCY REQUIREMENT

Transfer students must complete a minimum of 50% of their required coursework at Northwestern Technical College before being issued a diploma or degree. No more than 50% of the credit hours required for graduation may be earned by transfer of credit, credit by examination, or articulation. Credit awarded as part of an articulation agreement or awarded based upon industrial/corporate or third party certification must be validated by the Credit by Examination process in place at Northwestern Technical College. The 50% residency requirement may be reduced to 25% if the student has completed a program for which DTAE state standards have been implemented within the system and if the programs of study are of a comparable degree/diploma level.

FULL-TIME STUDENT

Individuals pursuing twelve (12) credit hours or more during a quarter are considered to be full-time students.

PART-TIME STUDENT

Part-time course work may be undertaken in any program of study. Students who take fewer than twelve (12) credit hours per term are considered to be part-time.

MAXIMUM CLASS LOAD

The maximum number of credit hours that a student may carry without special permission from the Academic Affairs Office is 21.

ACADEMIC ADVISORS

At the time of enrollment, each student will be assigned an academic advisor. The advisor's role is to offer counsel regarding the student's program of study, make referrals to other services, provide academic guidance when transferring to other institutions, and help students monitor their academic progress realistically. Before registering, students are required to meet with their advisor. In order to ensure that students are taking the appropriate courses for their program of study, all registration forms must be signed by the advisor.

With the advent of distance education via the Internet, some students may choose to take one or more classes online and never meet their instructor in person. Online students are still assigned an advisor just as a campus-based student and required to communicate with that advisor before registering for classes. Communication with the advisor may be accomplished in person, by telephone, or online. The faculty directory section of this catalog contains a list of all full and part-time faculty with telephone numbers and email addresses. This information is also available at the Northwestern web site, www.nwtcollege.org.

ATTENDANCE

Absences seriously disrupt a student's orderly progress in a course and significantly diminish the quality of group interaction in class. Although an occasional absence may be unavoidable, in no way is the student excused from meeting the requirements of the course when they are absent. A student absent from class is still responsible for preparing assignments for the next class and for completing the work missed. When a student must be absent, it is imperative that the absence is handled in a responsible and professional manner. Attendance, therefore, is an important criterion in the work ethic evaluation (see work ethics).

Typically absences in excess of 10% of the instructional time make it very difficult to complete the requirements of the course. When a student has missed 10% of the instructional time in a class, he or she may be contacted by the instructor of that class and counseled as to the available options. Those options may include withdrawal, if the withdrawal deadline has not passed, taking an incomplete, doing make-up work, etc. Some programs may have a more stringent attendance

DECLARING A MAJOR

At Northwestern Technical College each degree and diploma program requires students to progress through the following instructional course categories in a developmentally valid sequence:

General Core Curriculum

Occupational Curriculum

Students are encouraged to enroll in a combination of general studies courses and major courses. Each degree or diploma program complies with program admission standards and competency prerequisites established in the relevant program-specific standards. Students are required to complete prerequisite courses prior to enrolling in subsequent courses.

GENERAL CORE CURRICULUM

The General Core Curriculum includes a common group of courses in composition, speech, natural sciences, mathematics, humanities, social sciences, and basic computer skills that are required for a number of closely related program areas.

DIPLOMA PROGRAMS

Each student completing a diploma program at Northwestern Technical College is required to satisfactorily complete at least 13 credit hours in general core courses. For the diploma seeking student, that course of study typically consists of an appropriate course in mathematics, English, psychology, and computer literacy. This requirement is based upon the belief that to be well-trained is not enough. Today's technician must also be competent in the use of the written and spoken language, possess adequate computational skills, have good interpersonal skills and be able to use computers to solve problems. The diploma level general education core at Northwestern Technical College seeks to achieve this goal.

ASSOCIATE DEGREE PROGRAMS

Each student seeking the associate degree at Northwestern Technical College is required to satisfactorily complete at least 30 credit hours in general education that includes at least one course in mathematics or science, two courses in the arts and humanities, and one course in the social or behavioral sciences. In addition to these three areas associate degree students are required to complete at least one course in speech and a course in the use of computers. Associate degree students are also strongly encouraged to take at least one general education elective.

These requirements are based on the belief that the successful associate degree graduate must be more than a highly trained technician. He or she must be comfortable with and competent in the use of the spoken and written word and familiar with its form and structure. The student must have a level of mathematical proficiency that will allow him or her to read and understand mathematical information, solve mathematical problems, and make data based decisions. The associate degree graduate must have an understanding of the social and psychological self and a familiarity with and appreciation for the arts and humanities. General education at Northwestern Technical College prepares the student for an uncertain future in addition to training him or her in specific skills.

OCCUPATIONAL CURRICULUM

Occupational courses are those technical courses that form the majority of the student's program of study. The specific content of the major is defined by the curriculum requirements of each program area and includes from 61-120 credit hours in associate degree programs.

Elective Courses are available for each diploma or degree program and may be included in the requirements for program graduation. Electives are freely chosen by students in order to develop their individual interests and may be selected from non-required courses in the major program area, in general education, or in other program areas.

COLLEGE TRANSFER

Courses at Northwestern Technical College are not specifically designed to transfer into programs leading to the baccalaureate degree. The Georgia Board of Regents official position on courses taken at Northwestern is "Although courses from these institutions are not designed for programs leading to the baccalaureate degree, credit will be accepted for courses which are determined by the receiving institution, on a case-by-case basis, to be comparable to lower division courses offered at the receiving institution."

CHANGE OF MAJOR

In the event a student declares a change of major, the student's placement test scores and previously earned credits will be evaluated in terms of the new major. In some instances a change of major will result in additional general studies course work. Students desiring to change their major should complete a Change of Status Form available in the Records Office.

CLASS CANCELLATION

The college reserves the right to cancel any class with insufficient enrollment; however, all courses will be given the opportunity to make according to the schedule listed in the catalog.

COURSE PREREQUISITES

Course prerequisites listed in the Catalog must be met before advanced courses may be taken.

CREDIT BY EXAMINATION

Upon petition from a student, credit by examination may be given. If circumstantial evidence indicates the probability of special technical aptitude or knowledge on the part of the petitioner, a written, oral, and/or performance examination will be developed and administered by an instructor of the course. Permission to take such an examination must be granted by an appropriate instructor. To be eligible for credit by examination, the student must be currently enrolled in the institution. There is a nonrefundable \$25 fee for each examination. Students who score 75% or higher on all components of the examination will be awarded a grade of "EX" for the course. The "EX" carries no grade points, but the number of credit hours normally assigned to the course will be awarded. A student is eligible to challenge a course only one time. The application and procedure for initiating a request to challenge a course are available in the Admissions Office.

COURSE SUBSTITUTION

The College will permit substitution from the prescribed curricula only under unavoidable or exceptional circumstances. In order to request a deviation from the prescribed course of study, the student should first consult an advisor in that program area. If the student is advised to pursue the course substitution, he or she should obtain a Course Substitution Form from the Records Office. On this form the student will describe the substitutions sought and the reason for making that request. Such course substitution requests must receive approval from the Academic Affairs Office.

DEVELOPMENTAL STUDIES

Northwestern Technical College is dedicated to helping its students succeed. Foundation courses in English, reading, and mathematics are offered for students whose placement test scores indicate a need for remediation in one or more of these academic areas. Developmental studies courses improve the student's chance of success upon enrolling in a regular program of study.

Students without the minimum required SAT or ACT scores will be given a placement test at the time of application. This test is used for counseling and placement purposes only. If the test indicates that the student is not academically prepared to enter a regular program of study, the student may be granted developmental or provisional admission status to the College and will be placed in one or more developmental courses. Once the student has successfully completed the developmental course work, he or she will progress into courses in the desired program of study.

In order to successfully complete a developmental studies course, the student must meet the following criteria:

- 1. Complete the required exit examination
- 2. Score 80% or above on course work
- 3. Receive instructor recommendation

Applicants without a high school diploma or GED may be referred to Adult Literacy classes for remediation.

HELP LAB

The HELP Lab is an open lab which all students may use to complete word processing assignments and to utilize tutorial software in basic mathematics, algebra, geometry, and trigonometry, as well as in English grammar, composition, and reading. Software is available to diagnose specific needs and provide remedial instruction in one or more individual skills, to supplement classroom instruction, or to provide direction for specific writing projects. In addition to the software available in the lab, instructional video and audiocassettes are available in English grammar, pre-algebra, algebra, geometry, and trigonometry through the Library. Hours will be posted on the door of the HELP Lab and on the student bulletin board.

TUTORING

Tutoring is available to students who feel the need for one-on-one attention, to help them better understand their coursework. For more information, contact the Academic Affairs Office.

ELECTIVES

Elective hours allow the student to explore a field of interest or to enhance the program of study in which they are enrolled. Students may select elective hours from any course offered.

NOTIFICATION TO STUDENTS REGARDING TESTING AS A DEGREE REQUIREMENT

Any or all students may be required to take one or more tests designed to measure general education achievement, critical thinking skills, and/or achievement in selected major areas as a prerequisite to graduation or for the purpose of evaluation of academic programs. Unless otherwise provided for in an individual program, no minimum score or level of achievement is required for graduation. Students may also be asked to participate in one or more satisfaction surveys designed to measure institutional effectiveness. Participation in testing may be required for all students, students in selected programs, and for students selected on a sample basis.

TRANSCRIPTS

The College maintains the position that students' records are their own property; therefore, this information is released only when a student signs a Student Release Form in the Admissions Office. Students may have copies of their transcript sent to any institution or individual they choose. They may also order copies for their own use. There is a \$2.00 fee charged for each transcript.

TRANSCRIPT EVALUATION

Northwestern Technical College accepts transfer credits only from regionally/nationally accredited colleges. A grade of 'C' or better is required in order for the credit to transfer. Transfer credit is given only for courses with an equivalent at Northwestern Technical College. In order to receive transfer credit, the student must have official copies of any college transcripts sent to the Admissions Office. Transcripts are generally evaluated within two weeks after receipt.

ACADEMIC DISHONESTY POLICY

Charges of academic dishonesty initiated by the faculty or professional staff will be heard by a panel of faculty and students, and the students will be provided an opportunity to refute the charges. The result(s) of the hearing will be administered by the Academic Affairs Office. Any student found guilty of academic dishonesty will receive a grade of F in the course along with other possible sanctions including dismissal from the institution. In cases where academic dishonesty is in the area of misrepresentation, sanctions will be determined by the Academic Affairs Office and may include dismissal from the institution.

Academic dishonesty includes but is not limited to each of the following acts when performed in any type of academic or academically-related matter, exercise, or activity:

Cheating- using or providing others with unauthorized materials, information, study aids, or computer-related information. Plagiarism- the presenting the words, data, works, ideas, computer program or output of another as one's own work. Fabrication- presenting as genuine any invented or falsified citation or material.

Misrepresentation- falsifying, altering, or misstating the contents of documents or other materials related to academic matters, including schedules, prerequisites, and transcripts.



LIBRARY

The Library currently houses approximately 10,000 volumes with room for almost 15,000 more and has seating for seventy-five people. In addition to the main reading room, which contains most of the collection, the Library has a conference room for meetings and multimedia presentations, a multimedia distribution center control room, and work rooms for instructors and staff with one dedicated computer, a photocopier, an optical scanner, and a scantron. The major systems in the Library include an online electronic catalog for finding books, videotapes, and CD-ROMs; access to GALILEO for searching periodicals and other data, and sixteen Internet work-stations for searching the WEB. Northwestern Technical College also has resource sharing agreements with Kresge Memorial Library at Covenant College, the Cherokee Regional Library System, and the Catoosa County Library System.

Staffing includes two full-time professional Librarians, one full-time library technical assistant and work study library assistants. The operating schedule during the academic terms is 8:00 a.m. until 9:00 p.m. Monday through Thursday and 8:00 a.m. until 4:00 p.m. on Friday. When classes are not in session, Library operating hours are from 8:00 a.m. until 4:30 p.m. Monday through Thursday, and from 8:00 a.m. until 4:00 p.m.on Friday. The Library is open to all students, faculty, and staff of Northwestern Technical College, as well as any adult resident of the Northwestern service area.

Northwestern's library uses The Library Corporation (TLC), which recently combined with CARL Corporation to provide Library. Solution, a fully integrated turnkey library system servicing more than 1,000 libraries worldwide. This online Library. Solution system of circulation and cataloging enables users to locate, use and/or check-out library holdings relevant to their areas of interest. It also allows library staff to catalog online and produce a current online catalog that is accessible on the worldwide web using the URL: http://:www.nwtcollege.org and clicking into Library Services.

GALILEO, Georgia Library Learning Online, provides statewide online access to the catalogs of Georgia Public, Academic, and Special libraries. It also provides database searching by keywords, authors, titles, etc. Galileo is a webbased virtual library providing secured access to various periodical databases and pre-selected and evaluated Internet resources including the following:

- 1. EBSCOhost Databases (predominately full text)
- 2. ProQuest Family of Databases (predominantly full text)
- 3. Links to reference sites.
- 4. National Newspapers (27)
- 5. Internet Resources:
 - a. Reference sites
 - b. Directories: subject category searching
 - c. Search Engines: keywords or phrases searching

The Multimedia Distribution System consists of networked PC terminals located in every classroom, allowing faculty to access videocassettes, DVDs, and Satellite cable channels and broadcasts in the classroom. Over 600 instructional videos are available through the MDS. Training and tech support are available on-site.

LIBRARY SUPPORT FOR DISTANCE LEARNERS

The Northwestern Library Web Page provides a virtual gateway to the Library's resources. Online students may access library resources and arrange for the remote delivery of resources through the Library web page. A password, obtained from the Director of Library Services at 706.764.3568 or via email at rraab@nwtcollege.org, is required.



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Programs of Study

ASSOCIATE OF APPLIED TECHNOLOGY DEGREE PROGRAMS

Accounting Administrative Office Technology Associate Degree Nursing Computer Information Systems Computer Programming Option Microcomputer Specialist Option Networking Specialist Option Internet Specialist: Web Site Design Option Criminal Justice Drafting Early Childhood Education Electronics Computer Servicing Option Industrial Option Management and Supervisory

Development

Occupational Therapy Assistant

Business Option

Banking Option

Medical Assisting

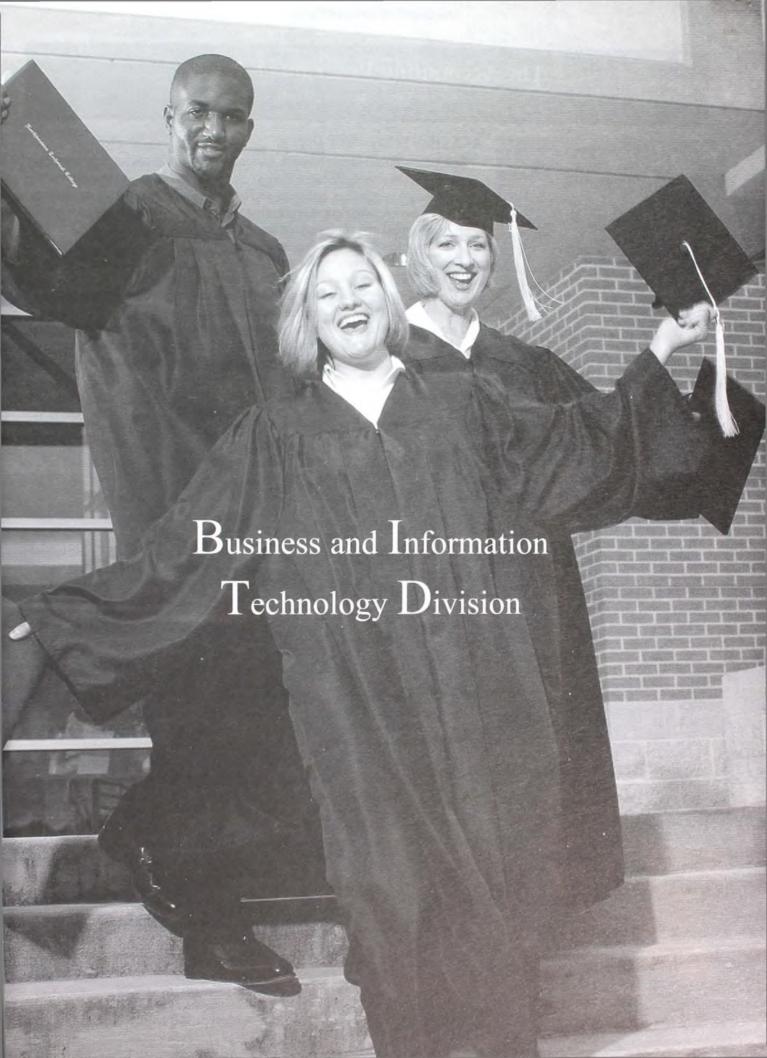
Surgical Technology

DIPLOMA PROGRAMS

Accounting Air Conditioning Technology Office Technology Legal Secretary Option Medical Secretary Option Business Secretary Option Computer Information Systems Computer Programming Option Internet Specialist: Web Site Design Option Microcomputer Specialist Option Networking Specialist Option Cosmetology Criminal Justice Advanced Drafting **Drafting Fundamentals** Early Childhood Education Electronics Computer Servicing Option Industrial Option **Electronics Fundamentals** Industrial Maintenance Licensed Practical Nursing Management and Supervisory Development Machine Tool Technology Advanced Machine Tool Technology Medical Assisting Surgical Technology Welding and Joining Technology

TECHNICAL CERTIFICATES OF CREDIT

Bookkeeping Specialist CAD Operator Central Sterile Processing Technician Certified Customer Service Specialist Certified Manufacturing Specialist Certified Programmer for the JAVA Platform Child Development Associate CISCO Specialist Commercial Truck Driving Comp TIA Network + Criminal Justice Records Technician Data Management Document Design and Production Emergency Medical Technology **Employee Relations** Engine Lathe Operator Gas Metal Arc Welding Gas Tungsten Arc Welding Geographic Information Systems Medical Coding Medical Receptionist Medical Transcription Microsoft Office User Specialist Milling Machine Operator Nail Tech Office Support Assistant Organizational Leadership Patient Care Tech Pharmacy Assistant Phlebotomy Technician Production and Inventory Control Programmable Logic Control Specialist (PLC) Shielded Metal Arc Welding Team Leader Technical Communication Web Designer Windows 2000



The Accounting Program @ NTC

Degree/Diploma/Certificate



ACCOUNTING: AAT Degree

The Accounting Program prepares students for careers in accounting. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes accounting theory and practical application necessary for successful employment using both manual and computerized accounting systems.

Admission Requirements for the Degree:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test; and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the AAT Degree in Accounting; Minimum Program Length - 6

General Core Curriculum		Credit Hours 30
ENG 191	Composition and Rhetoric I	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
PSY 191	Introductory Psychology	5
ECO 191	Principles of Economics	5
MAT 191	College Algebra	5
Occupationa	l Curriculum	Credit Hours 73-76
ACC 101	Principles of Accounting I	6
ACC 102	Principles of Accounting II	6
ACC 103	Principles of Accounting III	6
ACC 104	Computerized Accounting	3
ACC 106	Accounting Spreadsheet Fundamentals OR	3
CIS 2228	Spreadsheet Techniques	6
ACC 150	Cost Accounting	6
ACC 152	Payroll Accounting	4
ACC 156	Tax Accounting	4
ACC 158	Managerial Accounting	6
ACC 160	Advanced Accounting Spreadsheet Applications	4
CIS 222	Advanced Excel	3
BUS 101	Beginning Document Processing	5
BUS 108	Word Processing	7
BUS 151	Introduction to Business	5
SCT 100	Introduction to Microcomputers	3
	Electives	5

Quarters

Total Credit Hours Required for Graduation

103-106

33

ACCOUNTING: Diploma

The Accounting Program prepares students for careers in accounting. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes accounting theory and practical application necessary for successful employment using both manual and computerized accounting systems.

Admission Requirements for the Diploma:

attainment of 16 or more years of age:

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Accounting; Minimum Program Length - 4 **Ouarters**

General Cor	e Curriculum	Credit Hours 18
ENG 111	Business English	5
ENG 112	Business Communications	5
MAT 111	Business Math	5
EMP 100	Interpersonal Relations & Professional Development	3
Occupationa	l Curriculum	Credit Hours 43-46
ACC 101	Principles of Accounting I	6
ACC 102	Principles of Accounting II	6
ACC 103	Principles of Accounting III	6
ACC 104	Computerized Accounting	3
ACC 106	Accounting Spreadsheet Fundamentals	3
	OR	
CIS 2228	Spreadsheet Techniques	6
ACC 152	Payroll Accounting	4
BUS 101	Beginning Document Processing	5
BUS 108	Word Processing	7
SCT 100	Introduction to Microcomputers	3
	Electives	12
Total Credit	Hours Required for Graduation	73-76

BOOKKEEPING SPECIALIST: Certificate

The Bookkeeping Specialist Certificate provides an early exit point for accounting students while maintaining their career path to the diploma or associate degree. The skill level provides students the opportunity to gain employment quickly while continuing their education on either a full or part-time basis.

Admission Requirements for the Certificate:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Accounting; Minimum Program Length - 5 **Ouarters**

Occupational Curriculum		Credit Hours
ACC 101	Principles of Accounting I	6
ACC 102	Principles of Accounting II	6
ACC 104	Computerized Accounting	3
ACC 152	Payroll Accounting	4
MAT 111	Business Math	5
SCT 100	Introduction to Microcomputers	3
		27

The Computer Information Systems Program @ NTC

Degree/Diploma/Certificate



General Core Curriculum

XXX xxx

COMPUTER PROGRAMMING: AAT Degree

The Computer Programming Specialist Program prepares students to work in a variety of positions in the computer field. The program introduces, develops, and reinforces academic, technical, and professional knowledge, skills, and attitudes needed for job acquisition, retention, and advancement. In addition to the Computer Information Systems essential occupational curriculum, the program emphasizes computer programming theory and practical application necessary for successful employment. The program provides opportunities to upgrade present knowledge and skills or to retrain in Computer Information Systems.

Admission Requirements for the Degree:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED; achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution.

Credit Hours 30

Requirements: AAT Degree in Computer Information Systems - Computer Programming Specialist; Minimum Program Length - 6 Quarters

ENG 191	Composition and Rhetoric I	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
PSY 191	Introductory Psychology	5
ECO 191	Principles of Economics	5
MAT 191	College Algebra	5
Occupationa	d Curriculum	Credit Hours 80
CIS 105	Program Design and Development	5
CIS 106	Computer Concepts	5
SCT 100	Introduction to Microcomputers	3
CIS 103	Operating Systems Concepts	6
CIS 1140	Networking Fundamentals	6
CIS 112	Systems Analysis and Design	6
CIS 214	Database Management Programming	6
CIS xxx	Specific Occupational Guided Language Courses	35

Specific Occupational Guided Electives

(Completion of a total of 35 credit hours from language electives, including a minimum of 14 credit hours in the same programming language is required.)

Total Credit Hours Required for Graduation

110

COMPUTER PROGRAMMING: Diploma

The Computer Programming Specialist Program prepares students to work in a variety of positions in the computer field. The program introduces, develops, and reinforces academic, technical, and professional knowledge, skills, and attitudes needed for job acquisition, retention, and advancement. In addition to the Computer Information Systems essential occupational curriculum, the program emphasizes computer programming theory and practical application necessary for successful employment. The program provides opportunities to upgrade present knowledge and skills or to retrain in Computer Information Systems.

Admission Requirements for the Diploma:

attainment of 16 or more years of age;

General Core Curriculum

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Computer Information Systems-Computer Programming Specialist; Minimum Program Length - 5 Quarters

ENG 111	Business English	5
ENG 112	Business Communication	5
EMP 100	Interpersonal Relations & Professional Development	3
MAT 103	Algebraic Concepts	5
Occupationa	l Curriculum	Credit Hours 72
CIS 105	Program Design and Development	5
CIS 106	Computer Concepts	5
SCT 100	Introduction to Microcomputer	3
CIS 103	Operating Systems Concepts	6
CIS 1140	Networking Fundamentals	6
CIS 112	System Analysis and Design	6
CIS 214	Database Management	6
CIS xxx	Specific Occupational Guided Language Courses	35

(Completion of a total of 35 credit hours from language electives, including a minimum of 14 credit hours in the same programming language is required.)

Total Credit Hours Required for Graduation

90

Credit Hours 18



INTERNET SPECIALIST- WEB SITE DESIGN: AAT Degree

The Internet Specialist: Web Design program prepares students to work in a variety of positions in the computer field. The program introduces, develops, and reinforces academic, technical, and professional knowledge, skill, and attitudes



required for job acquisition, retention, and advancement. The program emphasizes skills in web design and and maintenance concepts and techniques. Students will receive training in multimedia software, database software for e-commerce applications, and website design software in addition to the Computer Information Systems essential occupational curriculum.

Admission Requirements for the Degree:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED; achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution.

Requirements for the AAT Degree in Computer Information Systems - Internet Specialist, Minimum Program Length - 6 Quarters

General Core Curriculum		Credit Hours 30
ENG 191	Composition and Rhetoric I	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
PSY 191	Introductory Psychology	5
ECO 191	Principles of Economics	5
MAT 191	College Algebra	5
Occupationa	l Curriculum	Credit Hours 70
CIS 105	Program Design and Development	5
CIS 106	Computer Concepts	5
SCT 100	Introduction to Microcomputer	3
CIS 103	Operating Systems Concepts	6
CIS 1140	Networking Fundamentals	6
CIS 2191	Internet Business Fundamentals	5
CIS 2201	HTML Fundamentals	3
CIS 2211	Web Site Design Tools	6
CIS 2221	Web Graphics & Multimedia	6
CIS 2231	Design Methodology	6
CIS 2261	JavaScript Fundamentals	4
CIS 2271	Fund. Of CGI using Perl	4
CIS 2281	Database Connectivity	7
	Occupationally Related Courses	4
Total Credit	Hours Required for Graduation	100
rotal Cicuit	rivars required for Graduation	100

INTERNET SPECIALIST- WEB SITE DESIGN: Diploma

The Internet Specialist: Web Design program prepares students to work in a variety of positions in the computer field. The program introduces, develops, and reinforces academic, technical, and professional knowledge, skill, and attitudes required for job acquisition, retention, and advancement. The program emphasizes skills in web design and and maintenance concepts and techniques. Students will receive training in multimedia software, database software for e-commerce applications, and website design software in addition to the Computer Information Systems essential occupational curriculum.

Admission Requirements for the Diploma:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Internet Specialist Minimum Program Length - 5 Quarters

General Cor	e Curriculum	Credit Hours 18
ENG 111	Business English	5
ENG 112	Business Communications	5
MAT 103	Algebraic Concepts	5
EMP 100	Interpersonal Relations & Professional Development	3
Occupationa	d Curriculum	Credit Hours 70
CIS 105	Program Design and Development	5
CIS 106	Computer Concepts	5
SCT 100	Introduction to Microcomputer	3
CIS 103	Operating Systems Concepts	6
CIS 1140	Networking Fundamentals	6
CIS 2191	Internet Business Fundamentals	5
CIS 2201	HTML Fundamentals	3
CIS 2211	Web Site Design Tools	6
CIS 2221	Web Graphics & Multimedia	6
CIS 2231	Design Methodology	6
CIS 2261	JavaScript Fundamentals	4
CIS 2271	Fund. Of CGI using Perl	4
CIS 2281	Database Connectivity	7
	Occupationally Related Courses	4
Total Credit	Hours Required for Graduation	88



MICROCOMPUTER SPECIALIST: AAT Degree

The Microcomputer Specialist Program prepares students to work in positions using microcomputers, such as end users, systems application developers, operators, technicians, or programmers. They install and maintain microcomputer hardware and programs in a variety of microcomputer programming languages. Graduates are knowledgeable in applica-



tion software and trained in evaluating new hardware and software in addition to the Computer Information Systems essential occupational curriculum. Students learn to adapt to a variety of positions in the rapidly changing computer field. Graduates' abilities include critical thinking, problem solving, human relations skills, and the ability to apply technology to work requirements. Graduates may receive an associate degree or diploma.

Admission Requirements for the Degree:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED; achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution.

Requirements: AAT Degree in Computer Information Systems - Microcomputer Specialist; Minimum Program Length - 6 Quarters

General Cor	e Curriculum	Credit Hours 30
ENG 191	Composition and Rhetoric I	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
PSY 191	Introductory Psychology	5
ECO 191	Principles of Economics	5
MAT 191	College Algebra	5
Occupationa	l Curriculum	Credit Hours 80
CIS 105	Program Design and Development	5
CIS 106	Computer Concepts	5
SCT 100	Introduction to Microcomputer	3
CIS 103	Operating Systems Concepts	6
CIS 1140	Networking Fundamentals	6
CIS 122	Microcomputer Installation and Maintenance	7
CIS xxx	Language Elective	7
CIS 127	Word Processing and Desktop Techniques	6
CIS 2228	Spreadsheet Techniques	6
CIS 2229	Database Techniques	6
	Occupational Related Courses	23
Total Credit	Hours Required	110

MICROCOMPUTER SPECIALIST: Diploma

The Microcomputer Specialist Program prepares students to work in positions using microcomputers, such as end users, systems application developers, operators, technicians, or programmers. They install and maintain microcomputer hardware and programs in a variety of microcomputer programming languages. Graduates are knowledgeable in application software and trained in evaluating new hardware and software in addition to the Computer Information Systems essential occupational curriculum. Students learn to adapt to a variety of positions in the rapidly changing computer field. Graduates' abilities include critical thinking, problem solving, human relations skills, and the ability to apply technology to work requirements. Graduates may receive an associate degree or diploma.

Admission Requirements for the Diploma:

attainment of 16 or more years of age;

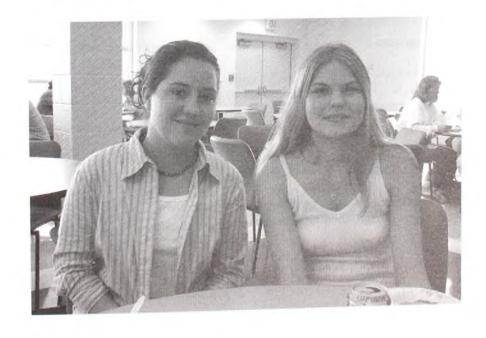
documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Computer Information Systems - Microcomputer Specialist; Minimum Program Length - 5 Quarters

General Core	Curriculum	Credit Hours 18
ENG 111	Business English	5
ENG 112	Business Communication	5
EMP 100	Interpersonal Relations & Professional Development	3
MAT 103	Algebraic Concepts	5
Occupational	Curriculum	Credit Hours 72
CIS 105	Program Design and Development	5
CIS 106	Computer Concepts	5
SCT 100	Introduction to Microcomputer	3
CIS 103	Operating Systems Concepts	6
CIS 1140	Networking Fundamentals	6
CIS 122	Microcomputer Installation and Maintenance	7
CIS xxx	Language Elective	7
CIS 127	Word Processing and Desktop Techniques	6
CIS 2228	Spreadsheet Techniques	6
CIS 2229	Database Techniques	6
	Occupationally Related Courses	15
Total Credit I	Hours Required for Graduation	90



NETWORKING SPECIALIST: AAT Degree

The Networking Specialist Program prepares students to work in the computer networking field. The program introduces, develops, and reinforces academic, technical, and professional knowledge, skill, and attitudes required for job acquisition, retention, and advancement, emphasizing skills in networking fundamentals and the Computer Information



Systems essential occupational curriculum. The CISCO option prepares students for the CISCO Certified Networking Associates Exam (CCNA) and the Windows 2000 option prepares students for the CORE exams in the Microsoft Certified Systems Engineer's certificate.

Admission Requirements for the Degree:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED; achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution.

Requirements for the AAT Degree in Computer Information Systems
Networking Specialist; Minimum Program Length - 6 Quarters

General Core	e Curriculum	Credit Hours 30
ENG 191	Composition and Rhetoric I	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
PSY 191	Introductory Psychology	5
ECO 191	Principles of Economics	5
MAT 191	College Algebra	5
Occupationa	l Curriculum	Credit Hours 81
CIS 105	Program Design and Development	5
CIS 106	Computer Concepts	5
SCT 100	Introduction to Microcomputer	3
CIS 103	Operating Systems Concepts	6
CIS 1140	Networking Fundamentals	6
CIS 122	Microcomputer Installation and Maintenance	7
CIS xxx	Language Elective	7
	Occupational Related Courses	9
Choose 1 of t	the following 2 options:	
CISCO Opti	on	
CIS 2321	Introduction to LAN & WAN	6
CIS 2322	Introduction to WANs and Routing	6
CIS 276	Advanced Routers and Switches	6
CIS 277	WAN Design	6
Windows 200	00 Option	
CIS 2149	Implementing Microsoft Windows Professional	6
CIS 2150	Implementing Microsoft Windows Server	6
CIS 2153	Implementing Microsoft Windows Networking Infrastructure	6
CIS 2154	Implementing Microsoft Windows Directory Services	6
Total Credit	Hours Required for Graduation	102

NETWORKING SPECIALIST: Diploma

The Networking Specialist Program prepares students to work in a variety of positions in the computer networking field. The program introduces, develops, and reinforces academic, technical, and professional knowledge, skill, and attitudes required for job acquisition, retention, and advancement, emphasizing skills in networking fundamentals and the Computer Information Systems essential occupational curriculum. The program has two options: the CISCO option prepares students for the CISCO Certified Networking Associates Exam (CCNA) and the Windows 2000 option prepares students for the CORE exams in the Microsoft Certified Systems Engineer's certificate.

Admission Requirements for the Diploma:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Networking Specialist Specialization Minimum Program Length - 5 Quarters

General Core	Curriculum	Credit Hours 18
ENG 111	Business English	5
ENG 112	Business Communications	5
EMP 100	Interpersonal Relations & Professional Development	3
MAT 103	Algebraic Concepts	5
Occupational	Curriculum	Credit Hours 72
CIS 105	Program Design and Development	5
CIS 106	Computer Concepts	5
SCT 100	Introduction to Microcomputer	3
CIS 103	Operating Systems Concepts	6
CIS 1140	Networking Fundamentals	6
CIS 122	Microcomputer Installation and Maintenance	7
CIS xxx	Language Elective	7
	Occupational Related Courses	9
Choose 1 of th	ne following 2 options:	
CISCO Optio		
CIS 2321	Introduction to LAN & WAN	6
CIS 2322	Introduction to WANs and Routing	6
CIS 276	Advanced Routers and Switches	6
CIS 277	WAN Design	6
Windows 200	0 Option	
CIS 2149	Implementing Microsoft Windows Professional	6
CIS 2150	Implementing Microsoft Windows Server	6
CIS 2153	implementing wilcrosoft windows rectworking initiation	6
CIS 2154	Implementing Microsoft Windows Directory Services	6
Total Credit	Hours Required for Graduation	90

JAVA PLATFORM: Certificate

The JAVA programming language is one of the new programming languages in great demand by the IT industry. The JAVA Programming Certificate provides first-time programmers an excellent choice for learning programming using the JAVA programming language. The certificate will help students understand the significance of the JAVA language. With this knowledge, students will develop programming skills in the areas of object oriented and JAVA technology. This course is used to teach students the syntax of the JAVA programming language, object oriented programming with the JAVA programming language, creating graphical interfaces (GUI), exceptions, file input/output (I/O), threads, and networking.

Admission Requirements:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

completion of general admission requirements;

and, achievement of program ready or provisional scores on the ASSET placement test.

Occupational Curriculum		Credit Hours
*CIS 252	Introduction to Java Programming	7
CIS 2421	Intermediate Java Programming	7
CIS 2431	Advanced Java Programming	7
Total Credit	Hours Required for Graduation	21

^{*} No Prerequisites

CISCO: Certificate

The CISCO Specialist certificate program will compliment an existing array of training programs in the CIS field. The CISCO curriculum will be taught as a stand-alone certificate and as an option in the AAT program. Completion of the program prepares the student for the Cisco Certified Network Associate Examination (CCNA). The student receives training needed to design, build, and maintain small to medium size networks.

Admission Requirements:

attainment of 16 or more years of age;

completion of general admission requirements;

and, achievement of program ready or provisional scores on the ASSET placement test.

Occupational Curriculum		Credit Hours
CIS 2321	Introduction to LAN & WAN	6
CIS 2322	Introduction to WANs and Routing	6
CIS 276	Advanced Routers & Switches	6
CIS 277	WAN Design	6
Total Credit	Hours Required for Graduation	24

CompTIA Network+: Certificate

This certificate is designed to prepare a student for the CompTIA Networking+ Exam. Earning the Network+ certification means that the candidate possesses the knowledge needed to configure and install the TCP/IP client. This exam covers a wide range of vendor and product neutral networking technologies that can also serve as a prerequisite for vendor-specific IT certifications.

Novell® accepts the Network+ certification exam in place of their Networking Technologies exam for all Certified Novell Engineer(SM) (CNE®) candidates.

Lotus accepts Network+ as a certification that meets the networking competency requirement for Lotus's CLP Domino Messaging Administrator R4 certification.

Admission Requirements:

attainment of 16 or more years of age;

completion of general admission requirements;

and, achievement of program ready or provisional scores on the ASSET placement test.

Occupationa	d Curriculum	Credit Hours
SCT 100Intro	oduction to Microcomputers	3
CIS 103	Operating Systems Concepts	6
CIS 106	Computer Concepts	5
CIS 122	Microcomputer Installation & Maintenance	7
CIS 1140	Networking Fundamentals	6
CIS 2321	Introduction to LAN & WAN	6
Total Credit	Hours Required for Graduation	33

DATA MANAGEMENT: Certificate*

The purpose of the Data Management Certificate is to provide instruction in the use of job specific software. It is intended for individuals whose job requirements demand high skill levels in the management and manipulation of data, including the storage and retrieval of data. This certificate stresses the mastery of advanced spreadsheet skills, desktop publishing, and database skills.

Admission Requirements:

attainment of 16 or more years of age;

completion of general admission requirements;

and, achievement of program ready or provisional scores on the ASSET placement test.

Occupational Curriculum		Credit Hours
SCT 100Introduction to Microcomputer		3
BUS 101	Beginning Document Processing	5
BUS 108	Word Processing	7
CIS 155	Microsoft Windows	3
CIS 2228	Spreadsheet Techniques	6
CIS 2229	Database Techniques	6
CIS 222	Advanced Excel	3
Total Credit	Hours Required for Graduation	33

MICROSOFT OFFICE USER SPECIALIST*,

Product Specialist Option/Office Suite Specialist Option: Certificate

The Microsoft Office User Specialist Certificate is for end users of the Microsoft Office Suite. Students prepare for the Microsoft Office User Specialist Certification examination. Persons completing the Microsoft Office User Specialist Product Specialist option and passing the Microsoft examination may be certified in Access, Excel, PowerPoint, or Word. A student may also choose the Microsoft Office Suite Specialist option, which includes certification in Access, Excel, Word, and PowerPoint.

Admission Requirements:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

completion of general admission requirements;

and, achievement of program ready or provisional scores on the reading section of the ASSET placement test.

	ffice User Specialist: Product Specialist Option Il Curriculum	Credit Hours
SCT 100	Introduction to Microcomputer	3
CIS 155	Microsoft Windows	3
MAT 111	Business Math	5
ENG 111	Business English	5
CIS 127	Word Processing and Desktop Techniques	6
CIS 2228	Spreadsheet Techniques	6
CIS 2229	Database Techniques	6
CIS 221	Advanced Word	3
	OR	
CIS 222	Advanced Excel	3
	OR	
CIS 223	Advanced Access	3
	OR	
CIS 224	Advanced PowerPoint	3
Total Credit	Hours Required for Graduation	37
Microsoft O	ffice User Specialist: Office Suite Specialist Option	
Occupations	Curriculum	Cuadit Hanne

Occupationa	al Curriculum	Credit Hours
SCT 100	Introduction to Microcomputers	3
CIS 155	Microsoft Windows	3
MAT 111	Business Math	5
ENG 111	Business English	5
CIS 127	Word Processing and Desktop Techniques	6
CIS 2228	Spreadsheet Techniques	6
CIS 2229	Database Techniques	6
CIS 221	Advanced Word	3
CIS 222	Advanced Excel	3
CIS 223	Advanced Access	3
CIS 224	Advanced PowerPoint	3
XXX	Occupationally Related Elective	3
Total Credit	Hours Required for Graduation	49

^{*}offered on campus and online

WEB DESIGNER: Certificate

The Web Designer program is designed to produce Web Designers. These individuals will be trained in web site development and maintenance and will be prepared to administer a web server. This certificate will also prepare students to sit for the Microsoft Certification exams that certify the individual as "Microsoft Certified Professional+Internet."

Admission Requirements:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

completion of general admission requirements;

and, achievement of program ready or provisional scores on the ASSET placement test.

Occupationa	l Curriculum	Credit Hours
SCT 100Introduction to Microcomputer		3
CIS 1140	Networking Fundamentals	6
CIS 2150	Implementing Microsoft Windows	6
CIS 2191	Internet Business Fundamentals	5
CIS 2221	Web Graphics & Multimedia	6
CIS 2211	Web Site Design Tools	6
CIS 2231	Design Methodology	6
CIS 2261	JavaScript Fundamentals	4
CIS 2201	HTML Fundamentals	3
Total Credit	Hours Required for Graduation	45

WINDOWS 2000: Certificate

Microsoft Windows 2000 is targeted toward medium-to-large organizations with enhanced security, reliability, and manageability. This certificate prepares students for the Microsoft Certified Professional (MCP) certification, and the five core exams required for the Windows 2000 Microsoft Certified Systems Engineer (MCSE) certification.

Admission Requirements:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

completion of general admission requirements;

and, achievement of program ready or provisional scores on the ASSET placement test.

Occupationa	l Curriculum	Credit Hours
CIS 1140	Networking Fundamentals	6
CIS 2149	Implementing Microsoft Windows	6
CIS 2150	Implementing Microsoft Windows Server	6
CIS 2154	Implementing Microsoft Windows Directory Services	6
CIS 2153	Implementing Microsoft Windows Network Infrastructure	6
CIS XXX	Elective	6
Total Credit	Hours Required for Graduation	36

The Management Program @ NTC

Degree/Diploma



MANAGEMENT & SUPERVISORY DEVELOPMENT: AAT Degree

The Management and Supervisory Development Program prepares experienced workers for entry into management or supervisory occupations in businesses and industries. The program introduces, develops, and reinforces academic and occupational knowledge, skills, and attitudes required for job acquisition, retention, and advancement.

Admission Requirements for the Degree:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED; achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution.

Requirements for the AAT in Management & Supervisory Development;

Minimum Program Length - 6 Quarters

General Core	Curriculum	Credit Hours 30
ENG 191	Composition and Rhetoric I	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
PSY 191	Introductory Psychology	5
ECO 191	Principles of Economics	5
MAT 191	College Algebra	5
Occupational	Curriculum	Credit Hours 46
SCT 100	Introduction to Microcomputers	3
ACC 101	Principles of Accounting OR	5
MKT 105	Accounting for Marketing Applications	5
MKT 101	Principles of Management	5
MSD 101	Interpersonal Employee Relations	5
MSD 102	Legal Environment for Supervisors	5
MSD 106	Counseling and Disciplinary Actions	5
MSD 107	Training and Performance Evaluation	5
MSD 108	Management and Supervisory Seminar	5
MSD 110	Management and Supervision O.B.I. I	3
MSD 113	Ethical Management	5
Essential Elec	tives:	Credit Hours 20
MSD 103	Leadership & Decision Making	5
MSD 104	Personnel Administration for Supervisors	5
MSD 151	Personal Development for Supervisors	5
MSD 154	Organizational Communication & Information Technology	5
		Credit Hours 5
Electives from	Outside the Area of Specialization	5
Total Credit I	Hours Required for Graduation	101

MANAGEMENT & SUPERVISORY DEVELOPMENT: AAT Degree, Banking Option

The Banking option is designed specifically for professionals working in the banking industry. It takes advantage of the existing professional development program offered through the American Institute of Banking by accepting, for transfer credit, specific college level AIB courses into the Management and Supervision Program towards an Associate of Applied Technology degree.

Admission Requirements for the Degree, with Banking Option:

attainment of 16 or more years of age;

Total Credit Hours Required for Graduation

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the AAT in AIB Option - Management & Supervisory Development; Minimum Program Length - 6 Quarters

General Care Curriculum		Credit Hours 30
ENG 191	Composition and Rhetoric I	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
PSY 191	Introductory Psychology	5
ECO 191	Principles of Economics	5
MAT 191	College Algebra	5
Occupationa	l Curriculum	Credit Hours 31
SCT 100	Introduction to Microcomputers	3
MKT 101	Principles of Management	5
MSD 101	Interpersonal Employee Relations	5
MSD 102	Legal Environment for Supervisors	5
MSD 103	Leadership and Decision Making	5
MSD 110	Management and Supervision O.B.I. I	3
MSD 113	Ethical Management	5
Approved AIB Courses for Transfer		Credit Hours 30
Accounting 1		5
_	or Bankers 2310	5
Marketing for Bankers 7740		5
Principles of Banking 1370		5
Supervision 4310		5
	Banking 1350	5



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MANAGEMENT & SUPERVISORY DEVELOPMENT: Diploma

The Management and Supervisory Development Program prepares experienced workers for entry into management or supervisory occupations in businesses and industries. The program introduces, develops, and reinforces academic and occupational knowledge, skills, and attitudes required for job acquisition, retention, and advancement.

Admission Requirements for the Diploma:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Management & Supervisory Development; Minimum Program Length - 4 Quarters

General Core	Curriculum	Credit Hours 18
ENG 111	Business English	5
ENG112	Business Communications	5
MAT 111	Business Math	5
EMP 100	Interpersonal Relations & Professional Development	3
Occupational	Curriculum	Credit Hours 46
SCT 100	Introduction to Microcomputers	3
MKT 101	Principles of Management	5
ECO 191	Principles of Economics	5
MKT 105	Accounting for Marketing Applications	5
	OR	
ACC 101	Principles of Accounting	5
MSD 102	Legal Environment for Supervisors	5
MSD 104	Personnel Administration for Supervisors	5
MSD 106	Counseling and Disciplinary Actions	5
MSD 107	Training and Performance Evaluation	5
MSD 108	Management and Supervisory Seminar	5
MSD 110	Management and Supervision O.B.I. I	3
Electives (Se	lect 20 hours from the following)	Credit Hours 20
MSD 101	Interpersonal Employee Relations	5
MSD 103	Leadership & Decision Making	5
MSD 113	Ethical Management	5
MSD 151	Personal Development for Supervisors	5
MSD 152	Project Management	5
MSD 154	Organizational Communication & Information Technology	5
Total Credit	Hours Required for Graduation	84

EMPLOYEE RELATIONS: Certificate

This programis for those moving into supervisory positions. Emphasis is on improving interpersonal relations and developing a broad understanding of employment law.

Admission Requirements:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution.

Curriculum		Credit Hours
ENG 191	English Composition & Rhetoric	5
MSD 101	Interpersonal Employee Relations	5
MSD 102	Legal Environment for Supervisors	5
SCT 100Introduction to Microcomputers		3
PSY 191Intro	ductory Psychology	5
	Elective	5
Total Credit	Hours Required for Graduation	28

ORGANIZATIONAL LEADERSHIP: Certificate

This programis for those moving into supervisory roles.

Admission Requirements:

attainment of 16 or more years of age;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution.

Curriculum		Credit Hours
MKT 101	Principles of Management	5
MSD 102	Legal Environment for Supervisors	5
MSD 103	Leadership and Decision Making	5
MSD 106	Counseling and Disciplinary Actions	5
MSD 107	Training and Performance Evaluations	5
SCT 100Introduction to Microcomputers		3
Total Credit	Hours Required for Graduation	28

TEAM LEADER: Certificate

The Team Leader Certificate prepares students to assume a first-line supervisory position. The certificate content addresses major issues confronted by the first-line supervisor. This certificate includes 5 hours of elective credit, allowing for significant customization of the curriculum to fit almost any corporate situation.

Admission Requirements:

attainment of 16 or more years of age;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution.

Curriculum		Credit Hours
MSD 101	Interpersonal Employee Relations	5
MSD 103	Leadership and Decision Making	5
14150 105	Elective	5
Total Credit	Hours Required for Graduation	15

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S

TELECOMMUNICATIONS MANAGEMENT: Certificate

This program teaches students how to function as a manager in a technologically diverse work environment.

Admission Requirements:

applicant must be at least 16 years of age;

achievement of program ready status on the ASSET placement examination or equivalent SAT, ACT, or CPE scores;

and, completion of general admission requirements.

Curriculum		Credit Hours
ENG 191	English Composition and Rhetoric	5
SCT 100	Introduction to Microcomputers	3
MKT 101	Principles of Management	5
MSD 101	Interpersonal Employee Relations	5
MSD 102	Legal Environment for Supervisors	5
MSD 103	Leadership and Decision Making	5
MSD 106	Counseling and Disciplinary Action	5
TEL xxx	Principles of Applied Telecommunications	5
TEL xxx	Emerging Technologies	5
Total Credit	Hours Required for Graduation	43

CERTIFIED CUSTOMER CARE SPECIALIST: Certificate

This programteaches students communication, computer, and sales skills.

Admission Requirements:

applicants must be at least 16 years of age;

achievement of program ready status on the ASSET placement examination or equivalent SAT, ACT, or CPE scores;

and, completion of general admission requirements.

Curriculum		Credit Hours
MKT 161	Service Industry Business Environment	2
MKT 162	Customer Contact Skills	6
MKT 163	Computer Skills for Customer Service	3
MKT 164	Business Skills for the Customer Service Environment	3
MKT 165	Personal Effectiveness in Customer Service	1
Total Credit I	lours Required for Graduation	15

CERTIFIED MANUFACTURING SPECIALIST: Certificate

This program trains students in teamwork, communication, quality control, computer skills, electrical safety, and production requirements.

Admission Requirements:

applicant must be at least 16 years of age;

achievement of program ready status on the ASSET placement examination or equivalent SAT, ACT, or CPE scores;

and, completion of general admission requirements.

Curriculum		Credit Hours
AMF 152	Manufacturing Organizational Principles	2
AMF 154	Manufacturing Workplace Skills	2
AMF 156	Manufacturing Production Requirements	2
AMF 158	Automated Manufacturing Skills	4
AMF 160	Representative Manufacturing Skills	5
Total Credit I	lours Required for Graduation	15

The Office Technology Program @ NTC

Degree/Diploma

ADMINISTRATIVE OFFICE TECHNOLOGY: **AAT Degree**

The Administrative Office Technology Degree Program prepares students for careers in administrative and office professions. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of business and office technology theory and practical application to instill critical thinking, problem solving, human relation skills, and the ability to apply technology to work requirements necessary for successful employment using both manual and computerized business and office technology systems.

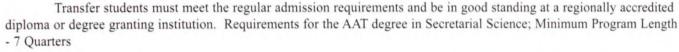
Admission Requirements for the Degree:

attainment of 16 or more years of age;

Total Credit Hours Required for Graduation

documentation of high school graduation or completion of GED; achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.





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General Core	Curriculum	Credit Hours 30
ENG 191	Composition & Rhetoric I	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
PSY 191Intro	ductory Psychology	5
ECO 191	Principles of Economics	5
MAT 191	College Algebra	5
Occupationa	Curriculum	Credit Hours 72-78
	duction to Microcomputers	3
ACC 101	Principles of Accounting I	6
ACC 102	Principles of Accounting II	6
BUS 101	Beginning Document Processing	5
BUS 102	Intermediate Document Processing	5 5
BUS 103	Advanced Document Processing	
BUS 105	Database Fundamentals	3
	OR	
CIS 2229	Database Techniques	6
BUS 106	Office Procedures	5
BUS 107	Machine Transcription	3
BUS 108	Word Processing	7 3
BUS 201	Advanced Word Processing	
BUS 202	Spreadsheet Fundamentals	3
	OR	
CIS 2228	Spreadsheet Techniques	6
MKT 101	Principles of Management	5
MKT 103	Business Law	5
	Electives	8

BUSINESS AND OFFICE TECHNOLOGY: Diploma, with Business Office Specialization

The Secretarial Science Degree Program prepares students for careers in the secretarial science profession. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of business and office technology theory and practical application to instill critical thinking, problem solving, human relation skills, and the ability to apply technology to work requirements necessary for successful employment using both manual and computerized business and office technology systems.

The Business Office Specialization track of the Business and Office Technology Diploma Program prepares students to work in business offices.

Admission Requirements for the Diploma:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Business Office Specialization; Minimum Program Length - 4 Quarters

General Core	e Curriculum	Credit Hours 18
ENG 111	Business English	5
ENG 112	Business Communications	5
MAT 111	Business Mathematics	5
EMP 100	Interpersonal Relations and Professional Development	3
Occupationa	l Curriculum	Credit Hours 30
BUS 101	Beginning Document Processing	5
BUS 102	Intermediate Document Processing	5
BUS 103	Advanced Document Processing	5
BUS 106	Office Procedures	5
BUS 108	Word Processing	7
SCT 100	Introduction to Microcomputers	3
Business Off	ice Specialization Curriculum	Credit Hours 23-30
BUS 105	Database Fundamentals OR	3
CIS 2229	Database Techniques	6
BUS 202	Spreadsheet Fundamentals OR	3
CIS 2228	Spreadsheet Techniques	6
BUS 107	Machine Transcription	3
BUS 201	Advanced Word Processing	3
BUS 208	Office Accounting OR	5
ACC 101	Principles of Accounting I	6
	Electives	6
Total Credit	Hours Required to Graduate	71-78

BUSINESS AND OFFICE TECHNOLOGY: Diploma, with Legal Office Specialization

The Secretarial Science Degree Program prepares students for careers in the secretarial science profession.

Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of business and office technology theory and practical application to instill critical thinking, problem solving, human relation skills, and the ability to apply technology to work requirements necessary for successful employment using both manual and computerized business and office technology systems.

The Legal Office Specialization track of the Business and Office Technology Diploma Program prepares students to work in legal offices.

Admission Requirements for the Diploma:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Legal Specialization; Minimum Program Length - 4 Quarters

Conditions 10

General Core	Curriculum	Credit Hours 18
ENG 111	Business English	5
ENG 112	Business Communications	5
MAT 111	Business Mathematics	5
EMP 100	Interpersonal Relations and Professional Development	3
Occupational	Curriculum	Credit Hours 30
BUS 101	Beginning Document Processing	5
BUS 102	Intermediate Document Processing	5
BUS 103	Advanced Document Processing	5
BUS 106	Office Procedures	5
BUS 108	Word Processing	7
SCT 100Intro	duction to Microcomputers	3
Legal Specia	lization Curriculum	Credit Hours 23
BUS 158	Legal Terminology	3
BUS 217	Legal Procedures I	7
BUS 218	Legal Procedures II	7
BUS 227	Legal Document Processing/Transcription	3
	Occupationally Related Electives	3
Total Credit	Hours Required for Graduation	71



BUSINESS AND OFFICE TECHNOLOGY: Diploma, with Medical Office Specialization

The Secretarial Science Degree Program prepares students for careers in the secretarial science profession.

Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of business and office technology theory and practical application to instill critical thinking, problem solving, human relation skills, and the ability to apply technology to work requirements necessary for successful employment using both manual and computerized business and office technology systems.

The Medical Office Specialization track of the Business and Office Technology Diploma Program prepares students to work in medical offices.

Admission Requirements for the Diploma:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Medical Specialization; Minimum Program Length-4 Quarters

General Cor	re Curriculum	Credit Hours 18
ENG 111	Business English	5
ENG 112	Business Communications	5
MAT 111	Business Mathematics	5
EMP 100	Interpersonal Relations and Professional Development	3
Occupationa	al Curriculum	Credit Hours 30
BUS 101	Beginning Document Processing	5
BUS 102	Intermediate Document Processing	5
BUS 103	Advanced Document Processing	5
BUS 106	Office Procedures	5
BUS 108	Word Processing	7
SCT 100	Introduction to Microcomputers	3
Medical Spe	cialization Curriculum	Credit Hours 23-24
BUS 208	Office Accounting	5
BUS 211	Medical Terminology OR	4
AHS 109	Medical Terminology for Allied Health	3
BUS 212	Anatomy and Terminology OR	5
AHS 101	Anatomy and Physiology	5
BUS 213	Medical Document Processing Transcription	5
BUS 216	Medical Office Procedures	5
BUS 226	Medical Office Billing/Coding/Insurance	5
Total Credit	Hours Required to Graduate	71-72

The Office Technology Certificate Programs @ NTC

DOCUMENT DESIGN AND PRODUCTION: Certificate

The Document Design and Production Certificate provides instruction in the use of job specific software. It is for students whose job requires high skill levels in producing printed documents, from single page announcements and flyers to multiple-page documents such as annual reports. This certificate stresses advanced word processing, desktop publishing, and graphic design skills.

Admission Requirements:

attainment of 16 or more years of age;

achievement of program ready or provisional scores on the ASSET

placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution.

Occupational Curriculum		Credit Hours
BUS 101	Beginning Document Processing	5
SCT 100Intro	duction to Microcomputers	3
BUS 108	Word Processing	5
BUS 161	Desktop Publishing I	5
BUS 162	Desktop Publishing II	5
BUS 201	Advanced Word Processing	3
BUS 105	Database Fundamentals	3
	OR	
CIS 2229	Database Techniques	6
BUS 202	Spreadsheet Fundamentals	3
	OR	
CIS 2228	Spreadsheet Techniques	6
CIS 1140	Networking Fundamentals	6
	OR	
CIS 155	Working with Microsoft Windows Software	3
Total Credit	Hours Required to Graduate	35-44

OFFICE SUPPORT ASSISTANT: Certificate

The Office Support Assistant program gives students the knowledge, skills, and attitudes needed to succeed as an Office Support Assistant.

Admission Requirements:

Total Credit Hours Required to Graduate

attainment of 16 or more years of age;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree-granting institution.

Occupations	d Curriculum	Credit Hours
Occupational Curriculum BUS 101 Beginning Document Processing		5
BUS 101 BUS 102	Intermediate Document Processing	5
BUS 102	Machine Transcription	3
BUS 107	Word Processing	7
SCT 100Introduction to Microcomputers		3
ENG 111	Business English	5
BUS 109	Applied Office Procedures	3
	II Declard to Conducto	31

MEDICAL RECEPTIONIST: Certificate

The Medical Receptionist Certificate provides an early exit point for students in Office Technology and Medical Assisting programs while maintaining their career path to the diploma or associate degree. Computer skills, medical terminology and office procedures are learned.

Admission Requirements:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution.

Occupationa	l Curriculum	Credit Hours
SCT 100	Introduction to Microcomputers	3
BUS 101	Beginning Document Processing	5
BUS 106	Office Procedures	5
	OR	
BUS 216	Medical Office Procedures	5
BUS 211	Medical Terminology	4
	OR	
AHS 109	Medical Terminology for Allied Health	3
BUS 212	Anatomy & Terminology	5
	OR	
AHS 101	Anatomy & Physiology	5
ENG 111	Business English	5
MAS 110	Medical Administrative Procedures I	3
MAS 111	Medical Administrative Procedures II	3
	OR	
BUS 213	Medical Document Processing	5
Total Credit	Hours Required to Graduate	33-34

MEDICAL TRANSCRIPTIONIST: Certificate*

The Medical Transcriptionist Certificate provides entry level training for medical office support in preparation for initial employment with concentration in medical transcription procedures.

Admission Requirements:

attainment of 16 or more years of age;

keyboarding skills must be 40 words a minute (If you plan to exempt BUS 101, you must call for an appointment to take the Credit by Exam.) (706) 764-3702 or (706) 764-3712;

achievement of program ready or provisional scores on the ASSET placement test; and, completion of general admission requirements.

Occupational Curriculum		Credit Hours	
BUS 102	Intermediate Document Processing	5	
BUS 108	Word Processing	7	
BUS 211	Medical Terminology	4	
	OR		
AHS 109	Medical Terminology for Allied Health	3	
BUS 212	Anatomy and Terminology	5	
	OR		
AHS 101	Anatomy and Physiology	5	
BUS 213	Medical Document Processing/Transcription	5	
ENG 111	Business English	5	
BUS 216	Medical Office Procedures	5	
BUS 201	Advanced Word Processing	3	
Total Credit	Hours Required to Graduate	38-39	

^{*}offered on campus and online

The Writing Program @ NTC

Certificate

TECHNICAL COMMUNICATION: Certificate

This certificate is designed to prepare motivated completers for jobs requiring written and oral communication skills along with technical proficiency allowing them skills for translating the technical knowledge to different audiences.

This type of technical training program is common at many technical colleges in the United States. It encompasses a skill set that is in high demand by employers both in the local service area and nationwide. Although a formal survey has not been administered, anecdotal evidence gathered at the time of advising (four times a year) indicates that students see this program as both a stand alone career path program and as a supplemental area of expertise that could be developed in concert with their major field of study.



Admission Requirements:

attainment of 16 or more years of age;

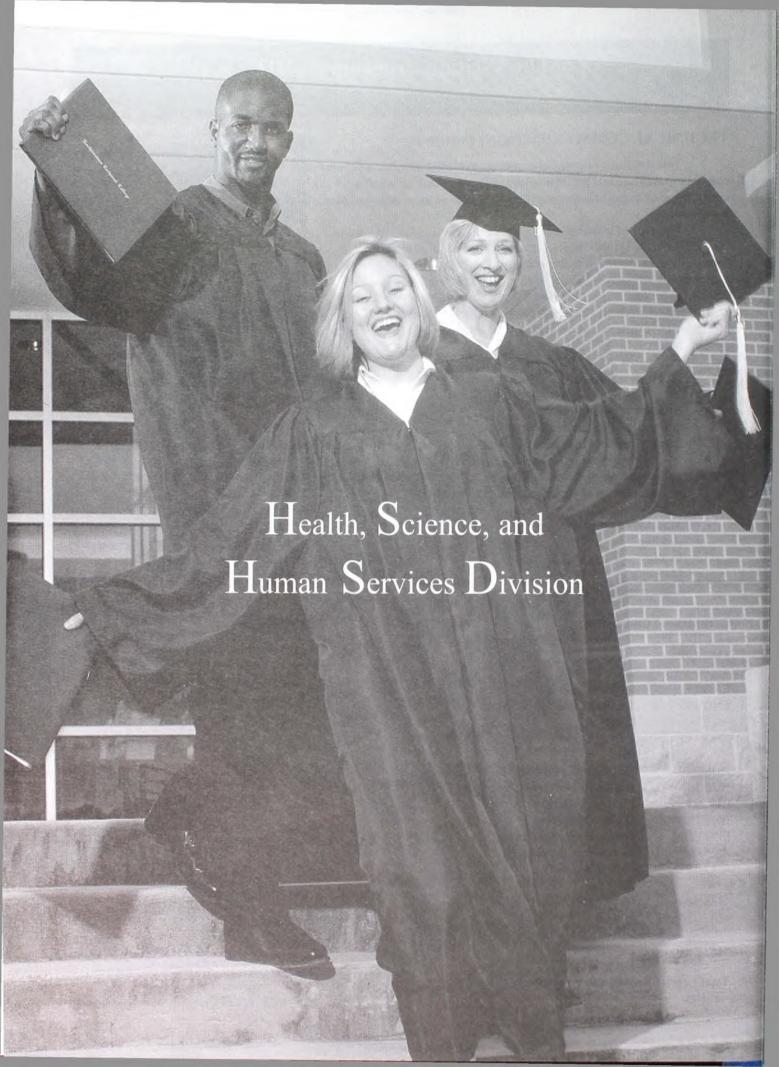
documentation of high school graduation or completion of GED (diploma requirement may be waived by the President for high school students);

achievement of program ready on the ASSET placement test; and, completion of general admission requirements.

Minimum Test Scores:

Reading	41
English	42
Mathematics	39
Elem. Algebra	46

Occupationa	l Curriculum	Credit Hour
SCT 100	Introduction to Microcomputers	3
ENG 191	Composition and Rhetoric I OR	5
ENG 193	English Composition II	5
ENG 195	Technical Writing OR	5
ENG 193	English Composition II OR	5
HUM 191	Introduction to Humanities	5
BUS 101	Beginning Document Processing	5
CIS 221	Advanced Microsoft Word	5
BUS 162	Desktop Publishing	5
SPC 191	Fundamentals of Speech	5
PSY 191	Introductory Psychology	5
MAT 191	College Algebra OR	5
MAT 190	Mathematical Modeling	5
MAT 198	Introductory Statistics OR	5
MAT 194	Pre-Calculus	5
	Electives	5
Total Credit	s Required to Graduate	53



The Cosmetology Program @ NTC

Diploma/Certificate

COSMETOLOGY: Diploma

The Cosmetology Program prepares students to work as cosmetologists. Learning opportunities develop academic and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes specialized training in safety, sanitation, hair treatment and manipulation, skin and nail care, color, highlighting, permanent weaving, relaxing, haircutting, styling, reception, sales, and management. The curriculum meets the licensing requirements of the State Board of Cosmetology. Program graduates receive a Cosmetology diploma and are employable as a cosmetology salesperson, cosmetologist, salon manager, or a salon owner.

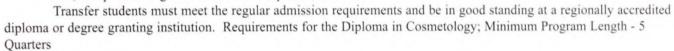
Admission Requirements for the Diploma:

attainment of 17 or more years of age;

documentation of high school graduation or completion of GED prior to graduation;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.



General Cor	e Curriculum	Credit Hours 13
ENG 111	Business English	5
	OR	
ENG 101	English	5
MAT 101	General Mathematics	5
EMP 100	Interpersonal Relations and Professional Development	3
Occupationa	d Curriculum	Credit Hours 64
COS 100	Introduction to Cosmetology Theory	5
COS 101	Introduction to Permanent Waving and Relaxing	2
COS 103	Introduction to Skin, Scalp, and Hair	2
COS 105	Introduction to Shampooing and Styling	4
COS 106	Introduction to Haircutting	3
COS 108	Permanent Waving and Relaxing	3
COS 109	Hair Color	6
COS 110	Skin, Scalp, and Hair	3
COS 111	Styling	3
COS 112	Manicuring and Pedicuring	3
COS 113	Practicum I	4
COS 114	Practicum II	8
COS 115	Practicum/Internship I	4
COS 116	Practicum/Internship II	5
COS 117	Salon/Shop Management	4
SCT 100	Introduction to Microcomputers	3
Total Credi	t Hours Required for Graduation	75

NAIL TECHNICIAN: Certificate

The Nail Technician Certificate Program provides certification of training for persons desiring to become nail technicians. The courses are contained in the Cosmetology Diploma Program and may be applied toward a diploma in that major.

Admission Requirements:

attainment of 16 or more years of age; completion of general admission requirements.

Occupational Curriculum		Credit Hours
COS 100	Introduction to Cosmetology	5
COS 112	Manicuring and Pedicuring	3
COS 117	Salon/Shop Management	4
COS 118	Nail Care I	7
COS 119	Nail Care II	6
Total Credit	Hours Required for Graduation	25



The Criminal Justice Program @ NTC

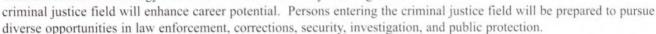
Degree/Diploma

CRIMINAL JUSTICE: AAT Degree

The Criminal Justice program gives students the knowledge, skills, and attitudes to succeed in the criminal justice field. The program produces graduates who are prepared to pursue opportunities in the criminal justice field in various capacities. The program emphasizes both criminal justice theory and practical application.

Students in the Criminal Justice program who hold state law enforcement certification may be eligible to receive course credit through the Georgia Peace Officer Standards and Training Council.

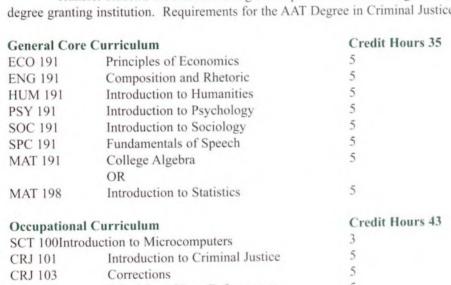
The associate of applied technology degree in Criminal Justice Technology is sequence of courses that prepare students to become Criminal Justice professionals. Learning opportunities develop academic, occupational, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of criminal justice theory and practical application necessary for successful employment. Program graduates receive an associate of applied technology degree in Criminal Justice Technology. Graduates who are currently working in the





documentation of high school graduation or completion of GED; achievement of program ready or provisional scores on the ASSET placement test; and, completion of general admission requirements.

Transfer students must meet the regular requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the AAT Degree in Criminal Justice; Minimum Program Length - 7 Quarters



SCT 100Intro	oduction to Microcomputers	3	
CRJ 101	Introduction to Criminal Justice	5	
CRJ 103	Corrections	5	
CRJ 104	Principles of Law Enforcement	5	
CRJ 105	Criminal Procedure	5	
CRJ 202	Constitutional Law	5	
CRJ 206	Criminology	5	
CRJ 207	Juvenile Justice	5	
CRJ 209	Criminal Justice Internship	5	
	Electives	17	

Total Credit Hours Required for Graduation

CRIMINAL JUSTICE TECHNOLOGY: Diploma

The Criminal Justice program gives students the knowledge, skills, and attitudes to succeed in the criminal justice field. The program produces graduates who are prepared to pursue opportunities in the Criminal Justice field in various capacities. The program emphasizes both criminal justice theory and practical application.

Students in the criminal justice program who hold state law enforcement certification may be eligible to receive

course credit through the Georgia Peace Officer Standards and Training Council.

The Criminal Justice Technology diploma program provides academic foundations in communications, mathematics, and human relations as well as occupational fundamentals. Program graduates are knowledgeable in the areas of constitutional and criminal law, law enforcement, criminal justice, corrections, and juvenile justice. Graduates are well prepared for careers in private security, corrections, and public protection.

Admission Requirements for Diploma:

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test; and

completion of general admission requirements

Transfer students must meet the regular requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the AAT Degree in Criminal Justice; Minimum Program Length - 6 Quarters

General Cor	e Curriculum	Credit Hours 15
ENG 111	Business English	5
PSY 191	Introduction to Psychology	5
MAT 101	General Mathematics	5
	OR	
MAT 111	Business Mathematics	5
Occupationa	l Curriculum	Credit Hours 43
SCT 100	Introduction to Microcomputers	3
CRJ 101	Introduction to Criminal Justice	5
CRJ 103	Corrections	5
CRJ 104	Principles of Law Enforcement	5
CRJ 105	Criminal Procedure	5
CRJ 202	Constitutional Law	5
CRJ 206	Criminology	5
CRJ 207	Juvenile Justice	5
CRJ 209	Criminal Justice Internship	5
	Electives	12
Total Credit	Hours Required for Graduation	70

CRIMINAL JUSTICE RECORDS TECHNICIAN: Certificate

This program teaches students to work as entry level records technicians in the law enforcement/corrections field. Admission Requirements for Diploma;

16 years of age or more;

achievement of program ready or provisional scores on the ASSET placement test; and completion of general admission requirements

Transfer students must meet the regular requirements and be in good standing at a regionally accredited diploma or degree granting institution.

Occupational Curriculum		Credit Hours 43
SCT 100	Introduction to Microcomputers	3
CRJ 101	Introduction to Criminal Justice	5
BUS 101	Beginning Document Processing	5
MSD 103	Leadership and Decision Making	5
MSD 156	Supervision in a Service Environment	5
MSD 175	Business Spanish	5
Total Credit Hours Required for Graduation		28

The Early Childhood Program @ NTC

Degree/Diploma/Certificate

EARLY CHILDHOOD CARE AND EDUCATION: AAT Degree

The Early Childhood Education program gives students the knowledge, skills, and attitudes needed to succeed in Early Childhood Education. The program produces graduates who are ready to work as paraprofessionals or early childhood program management directors. Program graduates are to be competent in the occupational areas of physical, social, emotional, and intellectual development of the child; CPR and first-aid training; health, safety, and nutrition; creative activities for children; and curriculum development.

Graduates are to be competent in one of two specializations.

Graduates specializing as paraprofessionals are to be competent in use of methods and materials in the classroom, concepts of professionalism, and use of computers. Graduates specializing in early childhood program management are to be competent in childcare facility management and childcare personnel management.



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Admission Requirements for the Degree:

attainment of 18 or more years of age;

documentation of high school graduation or completion of GED;

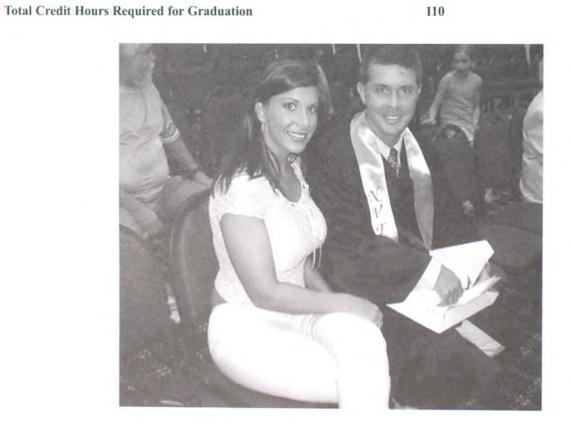
achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the AAT Degree in Early Childhood Education; Minimum Program Length - 8 Quarters

General Core Curriculum		Credit Hours 30
ENG 191	Composition and Rhetoric I	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
PSY 191	Introductory Psychology	5
SOC 191	Introduction to Sociology	.5
MAT 191	College Algebra	5
	OR	
MAT 193	Contemporary Mathematics	5

Occupations	d Curriculum	Credit Hours 69 - 73
ECE 101	Introduction to Early Childhood Education	5
ECE 103	Human Growth & Development I	5
ECE 105	Health, Safety and Nutrition	5
ECE 112	Curriculum Development	3
ECE 121	Early Childhood Education Practicum I	3
LCL 121	OR	
ECE xxx	Program Elective	5
ECE 122	Early Childhood Education Practicum II	3
ECE ILL	OR	
ECE xxx	Program Elective	5
SCT 100	Introduction to Microcomputers	3
ECE 113	Art for Children	3
ECE 114	Music and Movement	3
ECE 115	Language Arts and Literature	5
ECE 116	Math and Science	5
ECE 124	Early Childhood Education Internship	12
ECE 201	Exceptionalities	5
ECE 202	Social Issues and Families	5
Completion	of Specialization I or II:	
SPECIALIZ	ATION I:	
ECE 203	Human Growth and Development II	5
ECE 211	Methods and Materials	5
ECE 212	Professional Practices	5
SPECIALIZ	ATION II:	
ECE 217	Program Administrator	5
ECE 221	Facility Management	5
ECE 222	Personnel Management	5



EARLY CHILDHOOD CARE AND EDUCATION: Diploma

The Early Childhood Education program gives students the knowledge, skills, and attitudes needed to succeed in Early Childhood Education. The program produces graduates who are ready to work as paraprofessionals or early childhood program management directors. Program graduates are to be competent in the occupational areas of physical, social, emotional, and intellectual development of the child; CPR and first-aid training; health, safety, and nutrition; creative activities for children; and curriculum development.

Graduates are to be competent in one of two specializations. Graduates specializing as paraprofessionals are to be competent in use of methods and materials in the classroom, concepts of professionalism, and use of computers. Graduates specializing in early childhood program management are to be competent in childcare facility management and childcare personnel management.

Admission Requirements for the Diploma:

attainment of 18 or more years of age;

documentation of high school graduation or completion of GED;

achievement of program ready or provisional scores on the ASSET placement test;

and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Early Childhood Education; Minimum Program Length - 6 Quarters

General Core Curriculum		Credit Hours 13
ENG 111	Business English	5
EMP 100	Interpersonal Relations and Professional Development	3
MAT 101	General Mathematics	5
Occupational	Curriculum	Credit Hours 59 - 63
ECE 101	Introduction to Early Childhood Education	5
ECE 103	Human Growth & Development I	5
ECE 105	Health, Safety and Nutrition	5
ECE 112	Curriculum Development	.3
ECE 121	Early Childhood Education Practicum I	3
	OR	
ECE xxx	Program Elective	5
ECE 122	Early Childhood Education Practicum II	3
	OR	
ECE xxx	Program Elective	5
ECE 113	Art for Children	
ECE 114	Music and Movement	3
ECE 115	Language Arts and Literature	5
ECE 116	Math and Science	5
ECE 124	Early Childhood Education Internship	12
SCT 100Introduction to Microcomputers		3
ECE 202	Social Issues & Family Involvement	5
Total Credit	Hours Required for Graduation	73

CHILD DEVELOPMENT ASSOCIATE: Certificate

The certificate produces graduates who are prepared for employment as childcare assistants. The certificate is designed to prepare graduates to sit for the CDA credential exam from the Council for Early Childhood Professional Recognition in Washington, D.C. The CDA credential is recognized nationally by Head Start, Georgia State Pre-K programs, and other public and private early care and education settings.

Occupational Curriculum		Credit Hours
ECE 101	Introduction to Early Childhood Education	5
ECE 101	Human, Growth and Development I	5
ECE 105	Health, Safety and Nutrition	5
Total Credit	ts Required to Graduate	15

The Medical Assisting Program @ NTC

Degree/Diploma



MEDICAL ASSISTING: Degree/Diploma

The Medical Assistant Program develops the knowledge and skills needed to work in a private or group medical practice. After completing the required course work, the student interns as a medical assistant. Graduates will receive a diploma in Medical Assistant and are employable in the medical office environment.

Admission Requirements for the Degree/Diploma:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED; achievement of program ready or provisional scores on the ASSET placement test;

payment of fees for liability insurance; and CPR certification.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution.

Medical Assistant admission requirements:

- 1. Completion of application and related procedures.
- 2. Participation in interview with Program Director.
- 3. Submission of an autobiography.
- 4. Documentation of physical examination and immunization records three (3) weeks prior to externship.
- 5. Ability to comply with health related standards and meet minimum essential skill requirements.
- 6. Payment for liability insurance.
- 7. Documentation of current CPR certification.

Medical Assistant Program Essential Skills:

- 1. Meet admission standards.
- 2. Perform, read and interpret vital body signs.
- 3. Administer and evaluate all types of medications following safe procedures.
- 4. Perform sterile and isolation techniques.
- 5. Assist in lifting, transferring, and moving patients according to safety standards.
- 6. Perform daily functions for patients. (Example: Blood draws, testing, perform EKGs, assist with physical exam, etc.)
- 7. Read and interpret legal documents within the scope of medical assistant practice.
- 8. Perform documentation procedures.
- 9. Move throughout the clinical site in an efficient manner.
- 10. Communicate verbally and nonverbally with tact and understanding with patients, families, and co-workers.
- 11. Perform and maintain CPR certification.
- 12. Demonstrate progressive independence without constant supervision.
- 13. Demonstrate persistent appropriate personal grooming in class and clinical practice.
- 14. Follow the policies and procedures of the facility used for clinical practice.

CLINICAL REQUIREMENTS WORKING ENVIRONMENT - Works inside well-lighted, ventilated patient care areas, spends 89-90% of time in patient care areas. May possibly receive cuts from sharp instruments and infections from contaminated equipment and personnel. May be exposed to communicable diseases. May possibly incur strains due to handling heavy equipment.

OSHA RISK FACTOR - CATEGORY A. A chance of exposure to blood and other body fluids is high and is a condition of course completion. The courses expose the student to noxious smell, either toxic or non-toxic, exposure to toxic fumes, gases, vapors, mists or liquids which could, depending on the chemical, cause general or localized disabling conditions as a result of inhalation, ingestion or action on the skin. Physical Demands - This position will primarily be medium work requiring the ability to lift up to 50 pounds with frequent lifting and/or carrying objects weighing up to 25 pounds. The ability to push or pull carts weighing up to 50 pounds is required. Occasional stooping, kneeling, reaching, and dexterity are required. Expressing or exchanging ideas by the spoken word is required. The ability to see and obtain impressions of shape, size, distance, motions or other characteristics of objects is required. This requires a seeing acuity of near 20/20 vision, with clarity of vision at twenty inches or less, depth perception, four-way field vision, sharp eye focus, and the ability to identify and distinguish color. The ability to hear is essential. This position requires frequent sitting, standing and/or walking. Ability to work under mental and physical stress regularly is required.

RETENTION POLICIES

General Core Curriculum

- 1. Students must maintain a GPA of 2.0 or better. A "C" must be achieved in each course in order to progress to the next quarter in the MA Program.
- 2. Students must attain a numerical grade of 70 or better in each MA course, including clinical rotations, to progress in the program.

Credit Hours 40

3. A student must maintain CPR certification and carry professional liability insurance while enrolled in MA courses.

MEDICAL ASSISTANT: AAT Degree

Requirements for the Degree in Medical Assistant; Minimum Program Length - 8 Quarters

Otheral Core	Curriculum	CARRIE ALONS
ENG 191	Composition and Rhetoric	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
*PSY 191	Introductory Psychology	5
SOC 191	Introduction to Sociology	5
BIO 193	Anatomy and Physiology I	5
BIO 194	Anatomy and Physiology II	5
MAT 191	College Algebra	5
Occupationa	l Curriculum	Credit Hours 82
BUS 101	Beginning Document Processing	5
BUS 102	Intermediate Document Processing	5
BUS 212	Anatomy and Terminology	5
SCT 100	Introduction to Microcomputers	3
AHS 104	Introduction to Health Care	3
MAS 101	Legal Aspects of the Medical Office	2
MAS 103	Pharmacology	5
MAS 114	Medical Administrative Procedures I	3
WI 10 11 .	OR	
BUS 213	Medical Document Processing/Transcription	5
MAS 115	Medical Administrative Procedures II	3
MAS 106	Medical Office Procedures	4
MAS 108	Medical Assisting Skills I	5
MAS 109	Medical Assisting Skills II	4
MAS 112	Human Diseases	5
MAS 113	Maternal and Child Care	5
MAS 117	Medical Assisting Externship	8
MAS 118	Medical Assisting Seminar	4
MAS 151	ICD9 Coding I	3
MAS 152	ICD9 Coding II	3
MAS 153	CPT Coding	2
Total Credit	Hours Required for Graduation	122

*Substituted for EMP 100

MEDICAL ASSISTANT: Diploma

Requirements for the Diploma in Medical Assistant; Minimum Program Length - 5 Quarters

General Core Curriculum		Credit Hours 15
ENG 111	Business English	.5
2,10,11	OR	
ENG 101	English	5
MAT 101	General Mathematics	5
*PSY 191	Introductory Psychology	5
Occupationa	d Curriculum	Credit Hours 70
BUS 101	Beginning Document Processing	5
BUS 212	Anatomy and Terminology	5
SCT 100	Introduction to Microcomputers	3
AHS 101	Anatomy and Physiology	5
AHS 104	Introduction to Health Care	3
MAS 101	Legal Aspects of the Medical Office	2 5
MAS 103	Pharmacology	
MAS 114	Medical Administrative Procedures I	3
	OR	
BUS 213	Medical Document Processing/Transcription	5
MAS 115	Medical Administrative Procedures II	3
MAS 106	Medical Office Procedures	4
MAS 108	Medical Assisting Skills I	5
MAS 109	Medical Assisting Skills II	5
MAS 112	Human Diseases	5
MAS 113	Maternal and Child Care	5
MAS 117	Medical Assisting Externship	8
MAS 118	Medical Assisting Seminar	4
Total Credit	Hours Required for Graduation	87 or 89

^{*}Substituted for EMP 100



The Occupational Therapy Assistant Program @ NTC Degree

OCCUPATIONAL THERAPY ASSISTANT: Degree

The Occupational Therapy Assistant program prepares students to implement treatment procedures and plans to clients with limitations in occupational performance under the supervision of an occupational therapist per AOTA standards and State regulations. OTAs use a variety of everyday activities to help people achieve independence. Services are provided to individuals of all ages who have physical, developmental, emotional, and social deficits, and who, because of those deficits, need specialized assistance to lead productive and independent lives. Occupational therapy assistants work as a team to assist the impaired individual in returning to a satisfying life. Other occupational therapy assistant responsibilities include clerical skills, record keeping, and assistance with appropriate evaluation.

The Occupational Therapy Assistant program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, PO. Box 31220, Bethesda, Maryland 20824-1220. ACOTE's telephone number c/o AOTA is (301) 652-AOTA. Graduates are



able to sit for the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this examination, the individual will be a Certified Occupational Therapy Assistant (COTA). Most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination.

Note: All Level II Fieldwork must be completed within 18 months of completion of academic preparation.

A felony conviction may affect a graduate's ability to sit for the NBCOT certification or attain state licensure.

ADMISSION REQUIREMENTS

The requirements for admission to Northwestern Technical College are described below. The Occupational Therapy Assistant program admission requirements are in addition to the admission requirements to NTC. Prospective students must meet all admission standards for admission to Northwestern Technical College and to the OTA program.

NTC ADMISSION REQUIREMENTS:

- 1. Attainment of 17 or more years of age.
- 2. Complete and submit the Northwestern Technical College application along with a \$15 non refundable application fee.
- 3. Documentation of high school diploma from a regionally accredited high school or completion of the GED.
- 4. Submit official transcripts from high school and all college/postsecondary institutions attended.
- 5. Achievement of program ready status based on the ASSET placement test. (Students who do not achieve program ready status should complete developmental courses determined by placement testing.)

OCCUPATIONAL THERAPY ASSISTANT ADMISSION REQUIREMENTS:

- 1. Achieve program ready status as demonstrated by ASSET scores.
- 2. Achieve satisfactory scores on the Health Occupations Aptitude Test.
- 3. Documentation of 30-40 hours of volunteer work in at least two different clinical sites and settings with an OTR or COTA supervision.
- 4. Submit a student application for Occupational Therapy Assistant.
- 5. Supply a brief autobiography in which you describe why you are interested in a career in occupational therapy.
- 6. Submit the results of a physical examination one month prior to Level I fieldwork. The physical examination must include a TB skin test or chest X-ray and the results of a drug screen.
- Documentation of CPR certification submitted prior to Level I fieldwork.
- 8. Documentation of liability insurance paid through Northwestern Technical College prior to Level I fieldwork.
- 9. Schedule a personal interview with the designated college official upon completion of the above.
- 10. Students will be selected when the above requirements have been completed based on a "first come, first served" and space available policy.

ESSENTIAL SKILL REQUIREMENTS:

In order to complete the OTA program at NTC students will be required to meet the essential skill requirements of the program described below:

- 1. Be able to read and interpret documentation.
- 2. Be able to follow policies and procedures required in work setting and fieldwork setting.
- 3. Be aware of personal performance and identify need of supervision.
- 4. Be physically capable of lifting, transferring, and moving patients, equipment, etc.
- 5. Demonstrate independent skills without need of constant supervision.
- 6. Demonstrate and maintain professional behavior.
- 7. Demonstrate warmth and patience to ensure trust and respect from patients, colleagues, etc.
- 8. Be able to use imagination and ingenuity in adapting to meet the environmental needs of others.
- 9. Be flexible and willing to change as necessary to meet the environmental needs of others.

PHYSICAL AND CLINICAL REQUIREMENTS

Students will be involved in field work experiences in various settings including hospitals, long term care facilities, rehabilitation centers, home health, school systems, and mental health settings. Students may be exposed to communicable diseases and incur strains due to lifting, transferring and moving patients. Students may also be exposed to body fluids and blood. Due to the nature of occupational therapy practice, the work is considered medium work requiring the ability to lift up to 50 pounds with frequent lifting and carrying objects weighing up to 25 pounds. The ability to push/pull carts, wheel-chairs, etc. weighing 50 pounds is required. The job can be tiring due to frequent stooping, kneeling, reaching, standing, sitting, and/or walking. Manual dexterity is needed for manipulation of treatment equipment. The ability to communicate and express ideas by spoken words and written expression is required. There may be added mental and physical stress in this allied health field.

TRANSFER STUDENTS

Students transferring from regionally accredited colleges must meet all NTC and occupational therapy assistant admission requirements. In addition:

- 1. Transfer students must be in good standing at their previous institution;
- 2. Transfer students must submit a letter of recommendation from a professor at their previous institution;
- Transfer students may be required to document proficiency or repeat occupational therapy courses taken more than two years prior to admission to the OTA program;
- 4. Transfer students may be required to document proficiency or repeat science courses taken more than three years prior to admission to the OTA program.
- 5. Only courses with a grade of 'C' or better will be acceptable for transfer into the program.

RETENTION

- 1. Occupational Therapy Assistant students must maintain a cumulative GPA of 2.0 to remain in the program.
- 2. OTA students must maintain a "C" (70 or higher) grade in each course including field work in order to progress to the next quarter of the OTA program.
- 3. OTA students must maintain CPR certification.
- 4. OTA students must maintain liability insurance.

RE-ADMISSION

- 1. Students withdrawing or failing a class after admission into the OTA program will be allowed to return to the program one time when the class is next offered.
- 2. Students withdrawing or failing a second time must be readmitted to the program and repeat all coursework.
- Students seeking re-admission must meet all current admission requirements.
- 4. Students seeking re-admission must be in good standing with the institution.

Transfer students to the program must meet regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution.

GRADUATION

All course work in the OTA program must be satisfactorily completed in order to graduate. Only students who have completed the required course work and received the AAT degree will be eligible to sit for the National Board for Certification in Occupational Therapy Examination (NBCOT). Graduates will be eligible to apply for licensure, which is required in the state of Georgia and is contingent upon examination results.

Requirements for the AAT Degree in Occupational Therapy Assistant; Minimum Program Length - 8 Quarters

General Cor	e Curriculum	Credit Hours 45
ENG 191	Composition and Rhetoric	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
PSY 191	Introductory Psychology	5
PSY 201	Abnormal Psychology	5
SOC 191	Introduction to Sociology	5
BIO 193	Anatomy and Physiology I	5
BIO 194	Anatomy and Physiology II	5
MAT 191	College Algebra	5
Occupationa	l Curriculum	Credit Hours 92
BUS 212	Anatomy and Terminology	5
SCT 100	Introduction to Microcomputers	3
OTA 101	Introduction to Occupational Therapy	3
OTA 102	Growth and Development	5
OTA 103	Developmental Tasks	3
OTA 104	Conditions in Occupational Therapy	5
OTA 105	Analysis of Human Movement	6
OTA 201	Psychosocial Dysfunction	7
OTA 202	Psychosocial Dysfunction Treatment Methods	3
OTA 204	Pediatric Issues	5
OTA 206	Physical Dysfunction	7
OTA 207	Physical Dysfunction Treatment Methods	3
OTA 209	Geriatric Issues	5
OTA 212	Occupational Therapy Trends and Issues	3
OTA 213	Therapeutic Adaptations	5
OTA 221	Level II - Fieldwork A	12
OTA 222	Level II - Fieldwork B	12

Total Credit Hours Required for Graduation



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The Surgical Technology Program @ NTC

Degree/Diploma/Certificate



SURGICAL TECHNOLOGY: Degree/Diploma

The Surgical Technology program prepares students to work with nurses and surgeons to help provide the best possible care of surgical patients. They function as a part of the operating room team responsible for the cleanliness, safety, and efficiency of the operating room that leads to good patient care. Their experience with aseptic surgical techniques qualifies them to prepare materials for use at the operating table and to assist in the use of those materials.

NTC ADMISSION REQUIREMENTS:

- 1. Attainment of 17 or more years of age.
- 2. Complete and submit the NTI application along with a \$15 non-refundable application fee.
- 3. Documentation of high school diploma from a regionally accredited high school or completion of the GED.
- 4. Submit official transcripts from high school and college/postsecondary institutions attended.
- Achievement of regular program admission status based on the ASSET placement test.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution.

SURGICAL TECHNOLOGY ADMISSION REQUIREMENTS:

- 1. Completion of application and related procedures.
- 2. Participation in interview with the Program Director.
- 3. Submission of an autobiography
- 4. Documentation of physical examination and immunization records.
- 5. Ability to comply with health related standards and meet minimum essential skill requirements.
- 6. Liability insurance payment.
- 7. CPR certification.

ESSENTIAL SKILL REQUIREMENTS:

- 1. Perform, read, and interpret vital body signs
- 2. Perform sterile and isolation techniques.
- 3. Assist in lifting, moving, and transferring patients according to safety procedures.
- 4. Perform documentation procedures.
- 5. Perform and maintain CPR certification.
- 6. Demonstrate progressive independence without constant supervision.
- 7. Demonstrate persistent appropriate personal grooming in class and clinical practice.
- 8. Follow the policies and procedures of the facility for clinical use.
- 9. Manual dexterity is needed for manipulation of treatment equipment.
- 10. The ability to communicate and express ideas by spoken words and written expression is required.

There may be added mental and physical stress in this field. Students may be exposed to communicable diseases and incur strains due to lifting, transferring and moving patients. Students may also be exposed to body fluids and blood.

RETENTION POLICIES

- 1. Students must maintain a GPA of 2.0 or better. A "C" must be achieved in each course in order to progress to the next quarter of the program.
- 2. Students must attain a numerical grade of 70 or better in each lecture Surgical Technology course and 80% in clinical rotations, to progress in the program.
- A student must maintain CPR certification and carry professional liability insurance while enrolled in Surgical Technology courses.

SURGICAL TECHNOLOGY: AAT Degree

Minimum Program Length - 8 Quarters

General Cor	e Curriculum	Credit Hours 40
ENG 191	Composition and Rhetoric	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
PSY 1911ntro	ductory Psychology	5
SOC 191	Introduction to Sociology	5
BIO 193	Anatomy and Physiology I	5
BIO 194	Anatomy and Physiology II	5
MAT 191	College Algebra	5
Occupationa	l Curriculum	Credit Hours 82
SCT 100Intro	oduction to Microcomputers	3
BUS 212	Anatomy & Terminology	5
AHS 104	Introduction to Health Care	3
SUR 101	Introduction to Surgical Technology	6
SUR 102	Principles of Surgical Technology	5
SUR 108	Surgical Microbiology	3
SUR 109	Surgical Patient Care	3
SUR 110	Surgical Pharmacology	3
SUR 112	Introduction to Surgical Practicum	7
SUR 203	Surgical Procedures I	6
SUR 204	Surgical Procedures II	6
SUR 213	Specialty Surgical Practicum	8
SUR 214	Advanced Specialty Surgical Practicum	8
SUR 224	Seminar in Surgical Technology	3

Total Credit Hours Required for Graduation

Advanced Patient Care

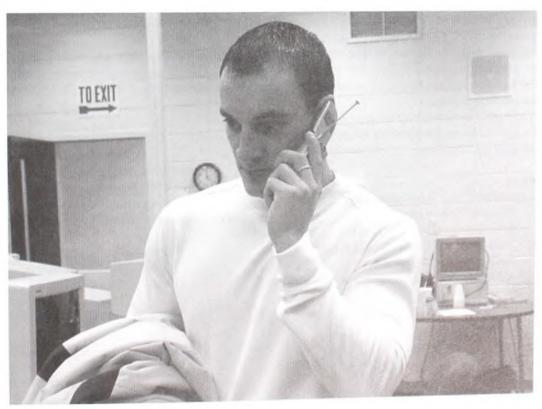
Advanced Specialty Surgical Practicum II

SUR 226

SUR 228



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SURGICAL TECHNOLOGY: Diploma

Minimum Program Length - 5 Quarters

General Core	Curriculum	Credit Hours 15
ENG 111	English	5
2112 111	OR	
ENG 101	English	5
MAT 101	General Mathematics	5
PSY 191	Introductory Psychology	5
Occupational	Curriculum	Credit Hours 74
SCT 100	Introduction to Microcomputers	3
BUS 212	Anatomy & Terminology	5
AHS 101	Anatomy & Physiology	5
AHS 104	Introduction to Health Care	3
SUR 101	Introduction to Surgical Technology	6
SUR 102	Principles of Surgical Technology	5
SUR 108	Surgical Microbiology	3
SUR 109	Surgical Patient Care	3
SUR 110	Surgical Pharmacology	3
SUR 112	Introduction to Surgical Practicum	7
SUR 203	Surgical Procedures I	6
SUR 204	Surgical Procedures II	6
SUR 213	Specialty Surgical Practicum	8
SUR 214	Advanced Specialty Surgical Practicum	8
SUR 224	Seminar in Surgical Technology	3

CENTRAL STERILE: Certificate

Total Credit Hours Required for Graduation

The purpose of this program is to provide entry level training that will prepare graduates to function in the sterile supply processing and distribution areas of healthcare facilities. The program is based on theory and clinical instruction that will apply scientific principles to the specific work area. Theory classes with participatory laboratory classes will prepare the student for clinical application of skills and knowledge in the healthcare facilities.

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Program Objectives:

- 1) Students will develop skills necessary to properly decontaminate, prepare, process, store, and issue both sterile and nonsterile medical/surgical supplies and equipment in the healthcare setting.
- 2) Students will be prepared to operate and monitor sterilizers within the healthcare facilities.

Admission Requirements:

attainment of 17 or more years of age; achievement of an acceptable score on the placement exam;

documentation of high school graduation or completion of GED

Required Courses		Credit Hours
BUS 212	Anatomy and Terminology	5
MAT 101	General Mathematics	5
SCT 100	Introduction to Microcomputers	3
CSP 101	Introduction to Central Sterile Processing	9
SUR 108	Surgical Microbiology	3
CSP 102	Central Sterile Processing Practicum	10
Total Credit	Hours Required for Graduation	35

The Health Sciences Certificate Programs @ NTC

EMERGENCY MEDICAL TECHNICIAN: Certificate

The Emergency Medical Technician program prepares a student for a career as an EMT (Emergency Medical Technician). The program meets the minimum requirements for the U.S. Department of Transportation National Standard Curriculum for Training of Emergency Medical Technicians.

Admission Requirements:

attainment of 18 or more years of age;

hold a valid driver's license;

achievement of an acceptable score in reading on the placement exam;

completion of EMT application along with NTC application and related procedures;

documentation of high school graduation or completion of GED:

formal acceptance into the program by the EMT admissions committee on the basis of interview and assessment of student potential;

and be physically able to perform the duties of an EMT as verified by a note from a physician. (Due to physical requirements involved, pregnant women are not eligible for this course.)

Required Courses		Credit Hours
EMS 120	Emergency Medical Technology I-Basic	8
EMS 121	Emergency Medical Technology II-Basic	7
EMS 122	Emergency Medical Technology -Intermediate	9
Total Credit	Hours Required for Graduation	24

EMT students are required to purchase Liability Insurance. The cost is \$46.50.

MEDICAL CODING: Certificate*

The Medical Coding Certificate provides entry level training in the Medical Coding protocols of ICD9 and CPT 4. Other areas of study included in this certificate include anatomy and terminology and human diseases.

Admission Requirements:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED;

completion of general admission requirements; and

achievement of program ready or provisional scores on the English and reading sections of the ASSET placement test.

Occupational Curriculum		Credit Hours
ENG 111	Business English	5
SCT 100	Introduction to Microcomputers	3
BUS 101	Beginning Document Processing	5
BUS 212	Anatomy and Terminology	5
AHS 100	Anatomy (*Internet Class Option Only)	5
	OR	
AHS 101	Anatomy and Physiology	5
MAS 112	Human Diseases	5
MAS 151	ICD9 Coding I	3
MAS 152	ICD9 Coding II	3
MAS 153	CPT4 Coding	2
Total Credit	Hours Required for Graduation	41

*offered on campus and online

PATIENT CARE TECHNICIAN: Certificate

This program, in partnership with Hutcheson Medical Center, provides a quick point of entry into the job market at Hutcheson. While employed at Hutcheson, the student will continue their education in one of the several health programs offered at Northwestern Technical College.

Admission Requirements:

attainment of 17 years of age or older;

documentation of high school graduation or completion of GED required; achievement of program ready or provisional scores on the ASSET Placement Test; and

completion of general admission requirements.

Occupational Curriculum		Credit Hours
NSG 110	Nursing Fundamentals	10
BUS 212	Anatomy and Terminology	5
AHS 104	Introduction to Allied Health	3
Total Credit Hours Required for Graduation		18

PHARMACY ASSISTANT: Certificate

The Pharmacy Assistant Certificate Program gives students the knowledge, skills, and attitudes needed to succeed in the pharmaceutical field. Program graduates will be competent in the following areas: mathematics, microcomputer applications, anatomy and physiology, fundamental concepts and principles in the pharmaceutical field, drug calculation, and administrative principles of receiving, storing, and dispensing medications, and skills applications.

Admission Requirements:

attainment of 17 years of age or older; documentation of high school graduation or completion of GED; documentation of high school graduation or completion of GED required; achievement of program ready or provisional scores on the ASSET Placement Test; and completion of general admission requirements.

Occupational Curriculum		Credit Hours
MAT 101	General Mathematics	5
AHS 101	Anatomy and Physiology	5
BUS 212	Anatomy and Terminology	5
SCT 100	Introduction to Microcomputers	3
PHR 101	Pharmacy Technology Fundamentals	5
AHS 102	Drug Calculation and Administration	3
PHR 102	Principles of Dispensing Medicines	6
DIS 150	Directed Independent Study	3
Total Credit	Hours Required for Graduation	35

PHLEBOTOMY TECHNICIAN: Certificate

The Phlebotomy program trains students to draw and process blood specimens. Phlebotomy Techs typically work in concert with medical lab techs in hospitals or other health care organizations. Topics include human anatomy, anatomical terminology, venipuncture, and clinical practice.

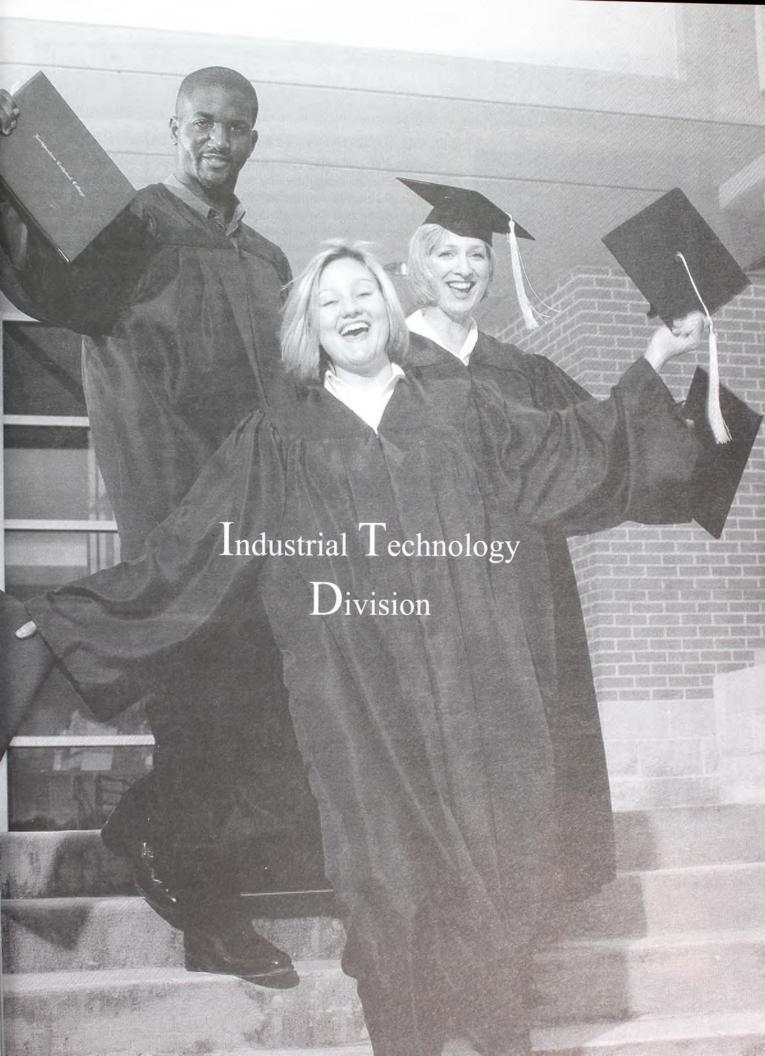
Admission Requirements:

attainment of 16 years of age or older;

documentation of high school graduation or completion of GED required;

achievement of program ready or provisional scores on the ASSET Placement Test; and completion of general admission requirements.

Occupational Curriculum		Credit Hours
AHS 101	Anatomy and Physiology	5
BUS 212	Anatomy and Terminology	5
PHL 103	Introduction to Venipuncture	4
PHL 105	Clinical Practice	8
Total Credit Hours Required for Graduation		22



The Air Conditioning Program @ NTC

Diploma



AIR CONDITIONING TECHNOLOGY: Diploma

The Air Conditioning Technology Program prepares students for careers in air conditioning. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of air conditioning technology theory and practical application necessary for successful employment using both manual and computerized air conditioning technology systems. Graduates receive an Air Conditioning Technology Diploma which qualifies them as entry level Conditioned Air Technicians.

Admission Requirements:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED prior to graduation;

achievement of program ready or provisional scores on the ASSET placement test; and

completion of general admission requirements.

Transfer students must meet the regular admission requirements and

be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Air Conditioning Technology; Minimum Program Length - 5 Quarters

General Cor	e Curriculum	Credit Hours 13
ENG 111	Business English	5
	OR	
ENG 101	English	5
MAT 101	General Mathematics	5
EMP 100	Interpersonal Relations & Professional Development	3
Occupationa	d Curriculum	Credit Hours 73
ACT 100	Refrigeration Fundamentals	4
ACT 101	Principles and Practices of Refrigeration	7
ACT 102	Refrigeration Components	7
ACT 103	Electrical Fundamentals	5
ACT 104	Electric Motors	3
ACT 105	Electrical Components	5
ACT 106	Electric Control Systems and Installation	4
ACT 107	Air Conditioning Principles	8
ACT 108	Air Conditioning Systems & Installation	3
ACT 109	Troubleshooting Air Conditioning Systems	7
ACT 110	Gas Heating Systems	5
ACT 111	Heat Pumps and Related Systems	6
IFC 100	Industrial Safety Procedures	2
IFC 101	Direct Circuit Currents I	4
SCT 100	Introduction to Microcomputers	3
Total Credit	Hours Required for Graduation	86

The Trucking Program @ NTC

Certificate

COMMERCIAL TRUCK DRIVING: Certificate

The Truck Driving Program provides basic training in the principles and skills of commercial truck operations. The program is based on the definition of a truck driver as one who operates commercial motor vehicles of different types and sizes on all types of roads. The truck driver maintains proper documentation on the load and the vehicle and is responsible for ensuring that the vehicle is in safe operating condition. In doing this, the driver must comply with all federal, state, and local laws and regulations.

Admission Requirements:

Must be at least 18 years of age;

Must obtain an appropriate license;

Can have no more than 8 points or 4 moving violations on the Georgia violator scale;

Can have no DUI in the past seven years;

Must obtain MVR report for the last three years;

Achievement of an acceptable score on the reading and math placement exam;

Must pass DOT physical examination and DOT drug test fulfilling requirements of Motor Carrier Safety Regulations (Physical must be current within 30 days.)

Must complete application of admission.

The items above are minimum requirements for program entrance. A person must be 21 years of age to drive for a company involved in interstate commerce. Some trucking companies require beginning drivers to be 25 years of age, and require an applicant to pass a drug screen.

Commercial Truck Driving Course Outline

The standard curriculum for the Truck Driving Program is set up as an eight week, 240 hour program. The program is predicated on a student-to-equipment ratio of 3 to 1 and an instructor-to-student ratio of 1 to 6. Also, each student should receive approximately 750 miles driving on various kinds of public roads. The four courses which comprise the program are listed below.

General Core Curriculum

Students may be required to take developmental courses if need is indicated by the ASSET Placement Test

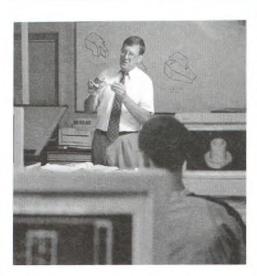
Occupationa	l Curriculum	Credit Hours
CTD 101	Fundamentals of Commercial Truck Driving	5
CTD 102	Basic Operation	5
CTD 103	Advanced Operations	5
	OR	
CTD 104	Internship	5
Total Credit Hours Required for Graduation		15

For a company interested in developing a cooperative arrangement with the school, the internship can replace the CTD 103 - Advanced Operations.



The Drafting Program @ NTC

Degree/Diploma/Certificate



General Core Curriculum

DRAFTING TECHNOLOGY: AAT Degree

The Drafting Program prepares students for employment in a variety of positions in the drafting field. The program introduces, develops, and reinforces academic and technical knowledge, skills, and attitudes required for job acquisition, retention and advancement. The program also provides opportunities to upgrade present knowledge and skills or to retrain in drafting.

Admission Requirements for the Degree:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED for the degree;

completion of high school graduation or GED prior to graduation for the diploma;

achievement of program ready or provisional scores on the ASSET placement test; and

completion of general admission requirements.

Transfer students must meet the regular admission requirements and

Credit Hours 30

be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the AAT Degree in Drafting (Mechanical Specialization); Minimum Program Length - 8 Quarters

ENG 191	Composition and Rhetoric I	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
PSY 191	Introductory Psychology	5
MAT 191	College Algebra	5
MAT 193	College Trigonometry	5
Occupationa	l Curriculum	Credit Hours 96
SCT 100	Introduction to Microcomputers	3
DDF 101	Introduction to Drafting	6
DDF 102	Size and Shape Description I	5
DDF 103	Size and Shape Description II	5
DDF 105	Auxiliary Views	3
DDF 106	Fasteners	3
DDF 107	Introduction to Computer Aided Drawing	6
DDF 108	Intersections and Development	5
DDF 109	Assembly Drawing I	5
DDF 111	Intermediate CAD	6
DDF 112	3-D Drawing and Modeling	6
DDS 201	Strength of Materials	5
DDS 225	Principles of Metallurgy	4
DDS 226	Manufacturing Processes	4
DDS 227	Jig, Fixture and Die Drawing	6
DDS 229	Gears and Cams	6
DDS 230	Mechanisms I	7
DDS 232	Mechanical Power Transmission	6
	Electives	5
Total Credit	Hours Required for Graduation	126

ADVANCED DRAFTING AND DESIGN: Diploma

The Drafting Program prepares students for employment in a variety of positions in the drafting field. The program introduces, develops, and reinforces academic and technical knowledge, skills, and attitudes required for job acquisition, retention and advancement. The program also provides opportunities to upgrade present knowledge and skills or to retrain in drafting.

Admission Requirements for the Diploma:

attainment of 16 or more years of age;

Total Credit Hours Required for Graduation

completion of high school graduation or GED prior to graduation for the diploma; achievement of program ready or provisional scores on the ASSET placement test; and completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Advanced Drafting; Minimum Program Length - 6 Quarters

General Core	e Curriculum	Credit Hours 23
ENG 111	Business English	5
	OR	
ENG 101	English	5
MAT 103	Algebraic Concepts	5
MAT 104	Geometry and Trigonometry	5
EMP 100	Interpersonal Relations & Professional Development	3
Occupationa	l Curriculum	Credit Hours 94
	oduction to Microcomputers	3
DDF 101	Introduction to Drafting	6
DDF 102	Size and Shape Description I	5
DDF 103	Size and Shape Description II	5
DDF 105	Auxiliary Views	3
DDF 106	Fasteners	3
DDF 107	Introduction to Computer Aided Drawing	6
DDF 108	Intersections and Development	5
DDF 109	Assembly Drawing I	5
DDF 111	Intermediate CAD	6
DDF 112	3-D Drawing and Modeling	6
DDS 201	Strength of Materials	5
DDS 225	Principles of Metallurgy	4
DDS 226	Manufacturing Processes	4
DDS 227	Jig, Fixture and Die Drawing	6
DDS 229	Gears and Cams	6
DDS 230	Mechanisms I	7
DDS 232	Mechanical Power Transmission	6
	Electives	3

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DRAFTING: Diploma

The Drafting Program prepares students for employment in a variety of positions in the drafting field. The program introduces, develops, and reinforces academic and technical knowledge, skills, and attitudes required for job acquisition, retention and advancement. The program also provides opportunities to upgrade present knowledge and skills or to retrain in drafting.

Admission Requirements for the Diploma:

attainment of 16 or more years of age;

completion of high school graduation or GED prior to graduation for the diploma;

achievement of program ready or provisional scores on the ASSET placement test; and

completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Drafting Fundamentals; Minimum Program Length - 4 Quarters

General Cor	e Curriculum	Credit Hours 18
ENG 111	Business English	5
	OR	
ENG 101	English	5
MAT 103	Algebraic Concepts	5
MAT 104	Geometry and Trigonometry	5
EMP 100	Interpersonal Relations & Professional Development	3
Occupationa	d Curriculum	Credit Hours 56
SCT 100	Introduction to Microcomputers	3
DDF 101	Introduction to Drafting	6
DDF 102	Size and Shape Description I	5
DDF 103	Size and Shape Description II	5
DDF 105	Auxiliary Views	3
DDF 106	Fasteners	3
DDF 107	Introduction to Computer Aided Drawing	6
DDF 108	Intersections and Development	5
DDF 109	Assembly Drawing I	5
DDF 111	Intermediate CAD	6
DDF 112	3-D Drawing and Modeling	6
	Electives	5

RESIDENTIAL DESIGN: Certificate

Total Credit Hours Required for Graduation

This program prepares students to work as entry level CAD operators with an emphasis on residential drawing.

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Admission Requirements:

attainment of 16 or more years of age;

achievement of program ready or provisional scores on the ASSET placement test; and completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution.

Occupational Curriculum		Credit Hours	
DDS 205	Residential Architectural Drawing I	6	
DDS 207	Mechanical Systems for Architecture	3	
DDS 208	Residential Architectural Drawing II	6	
Total Credit	Hours Required for Graduation	15	

CAD OPERATOR: Certificate

The CAD Operator program prepares students to specialize in the drawing field, emphasizing a combination of computer aided drafting (CAD) theory and practical application necessary for successful employment. The program is designed for drafters to continue training after employment.

Admission Requirements:

attainment of 16 or more years of age;

achievement of program ready or provisional scores on the ASSET placement test; and completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Certificate in CAD Operator; Minimum Program Length - 3 Quarters

Occupational Curriculum		Credit Hours
MAT 101	General Mathematics	5
DDF 100	Introduction to CAD	5
DDF 102	Size and Shape Description I	5
DDF 103	Size and Shape Description II	5
DDF 104	Pictorial Drawing	3
DDF 105	Auxiliary Views	3
DDF 106	Fasteners	3
DDF 109	Assembly Drawing I	5
Total Credit	Hours Required for Graduation	34

GEOGRAPHIC INFORMATION SYSTEMS: Certificate

The Geographic Information Systems certificate is a highly specialized training program designed for individuals seeking expertise in the technology and software that is driving this rapidly evolving field. Students will learn about automated storage, retrieval, and cartographic/graphic presentation of spatially-based data sets (e.g., land ownership records, land use information, U.S. census data). Graduates of the program could expect to find jobs in various land use and land management companies and agencies; with local, county, and state government; with planning agencies, with environmental agencies or with any business or agency that has a need for precise geographic/demographic information.

Program objectives:

- 1) Graduates from the program will be able to demonstrate an understanding of geographic fundamentals including such concepts as geodetic datums, coordinate systems, and definitions, origins, and history of GIS.
- 2) Graduates will be able to capture and manipulate geographic data.
- 3) Graduates will be able to identify and use the basic principles of maps, map scales, map projections, and map symbols used in GIS.
- 4) Graduates will be competent in the use of GIS computer applications including the skills required for cartographic design and global positioning systems and in the use of popular GIS and GPS mapping products.

Occupational Curriculum		Credit Hours
GIS 101	Geographic Information Systems I	5
GIS 102	Geographic Information Systems II	5
GIS 103	Cartography and Digital Image Analysis	5
GIS 104	Geographic Database Technology	5
GIS 105	GIS Directed Research Project	5
MAT 191	College Algebra	5
Total Credit Hours Required for Graduation		30

The Electronics Program @ NTC

Degree/Diploma



COMPUTER SERVICING SPECIALIZATION: AAT Degree

The Computer Servicing Specialization prepares students to work in the computer service industry. Learning opportunities develop academic, technical, and professional knowledge, as well as the skills required for job acquisition, retention, and advancement. The program emphasizes a combination of electronics technology theory and practical applications necessary for successful employment as computer service and repair technicians.

Admission Requirements:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED for the degree;

achievement of program ready or provisional scores on the ASSET placement test; and

completion of general admission requirements.

Transfer students must meet the regular admission requirements and

be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the AAT Degree in Electronics Technology - Computer Servicing Specialization; Minimum Program Length - 7 Quarters

General Core Curriculum		Credit Hours 30
ENG 191	Composition & Rhetoric I	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
MAT 191	College Algebra	5
MAT 193	College Trigonometry	5
PSY 191	Introductory Psychology OR	5
ECO 191	Principles of Economics	5
Occupationa	l Curriculum	Credit Hours 57
SCT 100	Introduction to Microcomputers	3
ELC 104	Soldering Technology	2
ELC 108	Direct Current Circuits II	4
ELC 110	Alternating Current II	4
ELC 115	Solid State Devices II	4
ELC 117	Linear Integrated Circuits	7
ELC 118	Digital Electronics I	4
ELC 119	Digital Electronics II	7
ELC 120	Microprocessors I	4
ELC 125	Solid State Devices III	4
IFC 100	Industrial Safety Procedures	2
IFC 101	Direct Current Circuits I	4
IFC 102	Alternating Current I	4
IFC 103	Solid State Devices I	4

Computer Se	ervicing Specialization	Credit Hours 38-44
ELC 121	Microprocessors II	4
ELC 122	Microprocessor Interfacing	4
ELC 201	Computer Peripherals AND	4
ELC 208	Computer System Troubleshooting OR	3
CIS 122	Installation & Maintenance	7
ELC 202	Networking OR	3
CIS 140	Networking Concepts	5
ELC 203	Operating Systems OR	3
CIS 103	Operating Systems	5
ELC 204	High Level Languages OR	3
CIS XXX	Language Programming Course	3
ELC 205	Data Communications OR	2
CIS 258	Introduction to Data Communications	4
	Technically Related Electives	12

Total Credit Hours Required for Graduation

125-131

COMPUTER SERVICING SPECIALIZATION: Diploma

The Computer Servicing Specialization prepares students to work in the computer service industry. Learning opportunities develop academic, technical, and professional knowledge, as well as the skills required for job acquisition, retention, and advancement. The program emphasizes a combination of electronics technology theory and practical applications necessary for successful employment as computer service and repair technicians.

Admission Requirements:

attainment of 16 or more years of age;

completion of high school graduation or GED prior to graduation for the diploma;

achievement of program ready or provisional scores on the ASSET placement test; and

completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Electronics Technology - Computer Servicing Specialization Minimum Program Length - 6 Quarters

General Core Curriculum		Credit Hours 18	
ENG 111	Business English	5	
	OR		
ENG 101	English	5	
MAT 103	Algebraic Concepts	5	
MAT 104	Geometry and Trigonometry	5	
	OR		
MAT 105	Trigonometry	5	
EMP 100	Interpersonal Relations & Professional Development	3	

Total Credit Hours Required for Graduation

Occupations	l Curriculum	Credit Hours 57
SCT 100	Introduction to Microcomputers	3
ELC 104	Soldering Technology	2
ELC 104	Direct Current Circuits II	4
ELC 110	Alternating Current II	4
ELC 115	Solid State Devices II	4
ELC 117	Linear Integrated Circuits	7
ELC 118	Digital Electronics I	4
ELC 119	Digital Electronics II	7
ELC 120	Microprocessors I	4
ELC 125	Solid State Devices III	4
IFC 100	Industrial Safety Procedures	2
IFC 101	Direct Current Circuits I	4
IFC 102	Alternating Current I	4
IFC 103	Solid State Devices I	4
	ervicing Specialization	Credit Hours 38 - 44
ELC 121	Microprocessors II	4
ELC 122	Microprocessor Interfacing	4
ELC 201	Computer Peripherals	4
	AND	
ELC 208	Computer System Troubleshooting	3
	OR	_
CIS 122	Installation & Maintenance	7
ELC 202	Networking	3
EL C 140	OR	
ELC 140	Networking Concepts	5
ELC 203	Operating Systems OR	3
CIS 103	Operating Systems	5
ELC 204	High Level Languages	3
	OR	
CIS xxx	Language Programming Class	3
ELC 205	Data Communications	2
	OR	
CIS 258	Introduction to Data Communications	4
	Electives	12

113-119

INDUSTRIAL CONTROL SPECIALIZATION: AAT Degree

The program prepares students to work in industrial electronics by developing academic, technical, and professional knowledge, as well as the skills required for job acquisition, retention, and advancement. The program emphasizes both theory and application in the industrial electronics field.

Admission Requirements for the Degree:

attainment of 16 or more years of age;

Total Credit Hours Required for Graduation

documentation of high school graduation or completion of GED for the degree;

achievement of program ready or provisional scores on the ASSET placement test; and

completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the AAT Degree in Electronics Technology Industrial Control Specialization; Minimum Program Length - 7 Quarters

General Core	Curriculum	Credit Hours 30
ENG 191	Composition & Rhetoric I	5
SPC 191	Fundamentals of Speech	5
HUM 191	Introduction to Humanities	5
MAT 191	College Algebra	5
MAT 193	College Trigonometry	5
	ductory Psychology	5
	OR	
ECO 191	Principles of Economics	5
Occupationa	l Curriculum	Credit Hours 57
	duction to Microcomputers	3
ELC 104	Soldering Technology	2
ELC 108	Direct Current Circuits II	4
ELC 110	Alternating Current II	4
ELC 115	Solid State Devices II	4
ELC 117	Linear Integrated Circuits	7
ELC 118	Digital Electronics I	4
ELC 119	Digital Electronics II	7
ELC 120	Microprocessors I	4
ELC 125	Solid State Devices III	4
IFC 100	Industrial Safety Procedures	2
IFC 101	Direct Current Circuits I	4
IFC 102	Alternating Current I	4
IFC 103	Solid State Devices I	4
Industrial C	ontrol Specialization	Credit Hours 38 - 40
ELC 121	Microprocessors II	4
ELC 122	Microprocessor Interfacing	4
ELC 211	Process Control	7
ELC 212	Motor Controls	7
ELC 216	Robotics	3
	OR	
ELT 113	Programmable Logic Control I	4
ELC 213	Programmable Logic Control II	6
ELC 214	Mechanical Devices	3
	OR	3
IMT 121	Two-Wire Control Circuits	3
ELC 215	Fluid Power	3
	OR	4
IMT 119	Fundamentals of Motor Control	1
	Electives	,
	and the state of t	125-127
Total Cuadi	+ Hours Paguired for Graduation	

-8

INDUSTRIAL CONTROL SPECIALIZATION: Diploma

The program prepares students to work in industrial electronics by developing academic, technical, and professional knowledge, as well as the skills required for job acquisition, retention, and advancement. The program emphasizes both theory and application in the industrial electronics field.

Admission Requirements for the Diploma:

attainment of 16 or more years of age;

completion of high school graduation or GED prior to graduation for the diploma;

achievement of program ready or provisional scores on the ASSET placement test; and

completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Electronics Technology - Industrial Control Specialization; Minimum Program Length - 6 Quarters

General Cor	e Curriculum	Credit Hours 18
ENG 111	Business English	5
	OR	
ENG 101	English	5
MAT 103	Algebraic Concepts	5
MAT 104	Geometry and Trigonometry	5
	OR	
MAT 105	Trigonometry	5
EMP 100	Interpersonal Relations & Professional Development	3
Occupationa	l Curriculum	Credit Hours 57
SCT 100	Introduction to Microcomputers	3
ELC 104	Soldering Technology	2
ELC 108	Direct Current Circuits II	4
ELC 110	Alternating Current II	4
ELC 115	Solid State Devices II	4
ELC 117	Linear Integrated Circuits	7
ELC 118	Digital Electronics I	4
ELC 119	Digital Electronics II	7
ELC 120	Microprocessors I	4
ELC 125	Solid State Devices III	4
IFC 100	Industrial Safety Procedures	2
IFC 101	Direct Current Circuits I	4
IFC 102	Alternating Current I	4
IFC 103	Solid State Devices I	4
Industrial Co	ontrol Specialization	Credit Hours 38-40
ELC 121	Microprocessors II	4
ELC 122	Microprocessor Interfacing	4
ELC 211	Process Control	7
ELC 212	Motor Controls	7
ELC 216	Robotics	3
	OR	3
ELT 113	Programmable Logic Control I	4
ELC 213	Programmable Logic Control II	6
ELC 214	Mechanical Devices	3
	OR	,
IMT 121	Two-Wire Control Circuits	3
ELC 215	Fluid Power	3
	OR	-
IMT 119	Fundamentals of Motor Controls	4
	Electives	i
The Late of the		
total Credit	Hours Required for Graduation	113-115

ELECTRONICS FUNDAMENTALS: Diploma

The Electronics Fundamentals Diploma Program prepares students for entry level positions in electronics technology professions. Learning opportunities develop academic, technical, and professional knowledge as well as the skills required for job acquisition, retention, and advancement. The program emphasizes a combination of electronics technology theory and practical application necessary for successful employment using both manual and computerized electronic systems.

Admission Requirements:

attainment of 16 or more years of age;

Total Credit Hours Required for Graduation

documentation of high school graduation or completion of GED prior to graduation; achievement of program ready or provisional scores on the ASSET placement test; and completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Electronic Fundamentals; Minimum Program Length - 5 Quarters

General Cor	e Curriculum	Credit Hours 18
ENG 111	Business English	5
	OR	
ENG 101	English	5
MAT 103	Algebraic Concepts	5
MAT 104	Geometry and Trigonometry	5
	OR	
MAT 105	Trigonometry	5
EMP 100	Interpersonal Relations & Professional Development	3
Occupationa	d Curriculum	Credit Hours 59
SCT 100	Introduction to Microcomputers	3
ELC 104	Soldering Technology	2
ELC 108	Direct Current Circuits II	4
ELC 110	Alternating Current II	4
ELC 115	Solid State Devices II	4
ELC 117	Linear Integrated Circuits	7
ELC 118	Digital Electronics I	4
ELC 119	Digital Electronics II	7
ELC 120	Microprocessors I	4
ELC 125	Solid State Devices III	4
IFC 100	Industrial Safety Procedures	2
IFC 101	Direct Current Circuits I	4
IFC 102	Alternating Current I	4
IFC 103	Solid State Devices I	4
	Electives	2

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The Industrial Maintenance Program @ NTC

Diploma/Certificate

INDUSTRIAL MAINTENANCE TECHNOLOGY (ELECTRICAL): Diploma



The program prepares students for industrial production equipment electrical maintenance. It introduces, develops, and reinforces the knowledge, skills, and attitudes needed for job acquisition, retention, and advancement, and provides for retraining or upgrading of present knowledge and skills.

Admission Requirements:

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED prior to graduation; achievement of program ready or provisional scores on the ASSET placement test; and, completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Industrial Maintenance; Minimum Program Length-5 Quarters

General Core	Curriculum	Credit Hours 13
ENG 111	Business English	5
	OR	
ENG 101	English	5
MAT 103	Algebraic Concepts	5
EMP 100	Interpersonal Relations & Professional Development	3
Occupational	Curriculum	Credit Hours 21
SCT 100	Introduction to Microcomputers	3
IFC 100	Industrial Safety Procedures	2
IFC 101	Direct Current Circuits I	4
IFC 102	Alternating Current I	4
IFC 103	Solid State Devices I	4
IMT 102	Problem Solving in Technology OR	4
ELC 108	Direct Current Circuits II	4
	intenance Specialization	Credit Hours 39 - 47
ELT 113	Programmable Logic Control I	4
ELT 114	Programmable Logic Control II OR	2
ELC 110	Alternating Currents II	4
IMT 119	Fundamentals of Motor Controls	4
IMT 121	Two-Wire Control Circuits	3
IMT 122	Advanced Motor Controls	3
IMT 123	Variable Speed Motor Controls OR	4
ELC 212	Motor Controls	7
IMT 129	Industrial Wiring I	5
IMT 130	Industrial Wiring II OR	5
IMT 118	DC/AC Motors	4
IMT 126	Programmable Logic Control Practicum OR	4
IMT 127	Industrial Maintenance Internship OR	4
ELC 213	Programmable Logic Control II	6
IMT 132	Industrial Maintenance (Electrical) Review	3
	Electives	3
Total Credit I	lours Required for Graduation	73 - 81

INDUSTRIAL MAINTENANCE TECHNOLOGY: PLC Specialist Certificate

This certificate prepares industrial maintenance personnel to install, operate, and troubleshoot programmable logic controllers applicable to a specific industry.

Admission Requirements:

attainment of 16 or more years of age;

achievement of program ready or provisional scores on the ASSET placement test; and completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the PLC Specialist Certificate; Minimum Program Length - 3 Quarters

Occupational Curriculum		Credit Hours 22
ELT 113	Programmable Logic Control I	4
IMT 119	Fundamentals of Motor Controls	4
IMT 120	Magnetic Starters and Braking	4
ELC 213	Programmable Logic Control II	6
	Electives	4
Total Credit	Hours Required for Graduation	22



The Machine Tool Program @ NTC

Diploma/Certificate



General Core Curriculum

ADVANCED MACHINE TOOL TECHNOLOGY: Diploma

The Machine Tool Technology Program prepares students to work as machinists. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of machine tool technology theory and practical application necessary for successful employment using both manual and computerized machine tool technology systems. Program graduates receive an advanced machine tool technology diploma which qualifies them as Machine Tool Technology Technicians.

Admission Requirements:

must be able to lift fifty (50) pounds;

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED prior to graduation;

achievement, of program ready or provisional scores on the ASSET placement test;

Credit Hours 13

and, completion of general admission requirements.

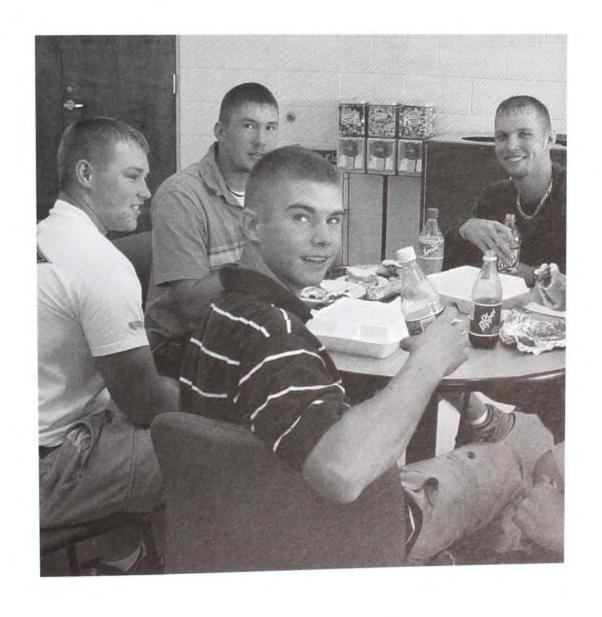
Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Advanced Machine Tool Technology; Minimum Program Length - 8 Quarters

		Citate Hours In
ENG 111	Business English	5
	OR	
ENG 101	English	5
MAT 101	General Mathematics	5
EMP 100	Interpersonal Relations and Professional Development	3
Occupationa	l Curriculum	Credit Hours 75
MCH 101	Introduction to Machine Tool	6
MCH 102	Blueprint Reading for Machine Tool	5
MCH 104	Machine Tool Math I	5
MCH 105	Machine Tool Math II	5
MCH 107	Characteristics of Metals/Heat Treatment I	4
MCH 109	Lathe Operations I	7
MCH 110	Lathe Operations II	6
MCH 112	Surface Grinding Operations	6
MCH 114	Blueprint Reading II	5
MCH 115	Mill Operations I	7
MCH 116	Mill Operations II	6
MCH 118	Computer/CNC Literacy	5
SCT 100	Introduction to Microcomputers	3
	Electives	5

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Completion of one of the following specializations is required: Advanced General Machinist Courses Credit Hours 38 MCA 201 Advanced Milling I MCA 203 Advanced Milling II 6 MCA 205 Advanced Lathe Operations I Advanced Lathe Operations II MCA 207 Advanced Grinding I MCA 208 Advanced Grinding II MCA 209 Technically Related Electives OR Advanced CNC Specialist Courses Credit Hours 38 MCA 211 **CNC** Fundamentals MCA 213 CNC Mill Manual Programming CNC Lathe Manual Programming MCA 215 **CNC Practical Applications** MCA 217 6 MCA 219 CAD/CAM Programming 6 Technically Related Electives 5

Total Credit Hours Required for Graduation



MACHINE TOOL TECHNOLOGY: Diploma

The Machine Tool Technology Program prepares students to work as machinists. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of machine tool technology theory and practical application necessary for successful employment using both manual and computerized machine tool technology systems. Program graduates receive an advanced machine tool technology diploma which qualifies them as Machine Tool Technology Technicians.

Admission Requirements:

must be able to lift fifty (50) pounds;

attainment of 16 or more years of age;

documentation of high school graduation or completion of GED prior to graduation; achievement, of program ready or provisional scores on the ASSET placement test; and

completion of general admission requirements.

Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Machine Tool Technology; Minimum Program Length - 5 Quarters

General Core	Curriculum	Credit Hours 13
ENG 111	Business English	5
	OR	
ENG 101	English	5
MAT 101	General Mathematics	5
EMP 100	Interpersonal Relations and Professional Development	3
Occupationa	Curriculum	Credit Hours 75
MCH 101	Introduction to Machine Tool	6
MCH 102	Blueprint Reading for Machine Tool	5
MCH 104	Machine Tool Math I	5
MCH 105	Machine Tool Math II	5
MCH 107	Characteristics of Metals/Heat Treatment I	4
MCH 109	Lathe Operations I	7
MCH 110	Lathe Operations II	6
MCH 112	Surface Grinding Operations	6
MCH 114	Blueprint Reading II	5
MCH 115	Mill Operations I	7
MCH 116	Mill Operations II	6
MCH 118	Computer/CNC Literacy	5
SCT 100	Introduction to Microcomputers	3
	Electives	5
Total Credit	Hours Required for Graduation	88

ENGINE LATHE OPERATOR: Certificate

This program teaches students to effectively operate the metal lathe. Students become proficient in blueprint reading, general mathematics, and the characteristics of metal/heat treatment processes.

Occupational Curriculum

MAT 101	General Math	5
MCH 101	Introduction to Machine Tool	6
MCH 102	Blueprint Reading for Machine Tool I	5
MCH 107	Characteristics of Metal/Heat Treatment I	4
MCH 109	Lathe Operations I	7
MCH 110	Lathe Operations II	6
	Elective	4

MILLING MACHINE OPERATOR: Certificate

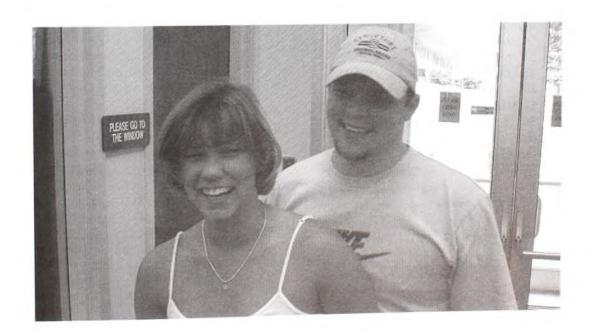
Total Credit Hours Required for Graduation

This program teaches students to effectively operate the milling machine. Students become proficient in blueprint reading, general mathematics, and the characteristics of metal/heat treatment processes.

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Occupational Curriculum

MAT 101	General Math	5
MCH 101	Introduction to Machine Tool	6
MCH 102	Blueprint Reading for Machine Tool I	5
MCH 107	Characteristics of Metal/Heat Treatment I	4
MCH 115	Mill Operations I	7
MCH 116	Mill Operations II	6
	Elective	4
Total Credit	Hours Required for Graduation	37



The Welding Program @ NTC

Diploma



WELDING AND JOINING TECHNOLOGY: Diploma

The Welding and Joining Technology program prepares students to work as welders. Learning opportunities develop academic, technical and professional knowledge and skills required for job acquisition, retention and advancement. The program emphasizes a combination of welding and joining technology theory and practical application necessary for successful employment using both manual and computerized welding and joining technology systems. Program graduates receive a welding and joining technology diploma qualifying them as Welding and Joining Technicians. Graduates may receive a certificate in two areas.

Admission Requirements:

attainment of 16 or more years of age; documentation of high school graduation or GED prior to graduation;

achievement of program ready or provisional scores on the ASSET placement test; and

completion of general admission requirements.

Transfer students to the program must meet regular admission requirements and be in good standing at a regionally accredited diploma or degree granting institution. Requirements for the Diploma in Welding and Joining Technology; Minimum Program Length - 4 quarters

General Core	Curriculum	Credit Hours 13
ENG 111	Business English	5
	OR	
ENG 101	English	5
MAT 101	General Mathematics	5
EMP 100	Interpersonal Relations & Professional Development	3
Occupational	Curriculum	Credit Hours 62
SCT 100	Introduction to Microcomputers	3
WLD 100	Introduction to Welding Technology	6
WLD 101	Oxyfuel Cutting	4
WLD 103	Blueprint Reading I	3
WLD 104	Shielded Metal Arc Welding I	6
WLD 105	Shielded Metal Arc Welding II	6
WLD 106	Shielded Metal Arc Welding III	6
WLD 107	Shielded Metal Arc Welding IV	6
WLD 108	Blueprint Reading II	3
WLD 109	Gas Metal Arc Welding	6
WLD 110	Gas Tungsten Arc Welding	4
WLD 112	Preparation for Industrial Qualification	4
WLD 160	Welding & Joining Half-Time Internship OR	5
	Program Elective	5
Total Credit	Hours Required for Graduation	75

GAS METAL ARC WELDING: Certificate

The Gas Metal Arc Welding Certificate provides learning opportunities for individuals who need job specific training in Gas Metal Arc Welding.

Admission Requirements:

attainment of 16 or more years of age, and completion of general admission requirements.

Occupational Curriculum		Credit Hours
WLD 100	Introduction to Welding Technology	6
WLD 101	Oxyfuel Cutting	4
WLD 109	Gas Metal Arc Welding	6
Total Credit	Hours Required for Graduation	16

GAS TUNGSTEN ARC WELDING: Certificate

The Gas Tungsten Arc Welding Certificate provides learning opportunities for individuals who need job specific training in Gas Tungsten Arc Welding.

Admission Requirements:

attainment of 16 or more years of age,

achievement of program ready or provisional scores on the ASSET placement examination, and completion of general admission requirements

Occupational Curriculum		Credit Hours
MAT 101	General Mathematics	5
WLD 100	Introduction to Welding Technology	6
WLD 103	Blueprint Reading I	3
WLD 108	Blueprint Reading II	3
WLD 110	Gas Tungsten Arc Welding	4
WLD 150	Advanced Gas Tungsten Arc Welding	5
Total Credit	Hours Required for Graduation	26

SHIELDED METAL ARC WELDING: Certificate

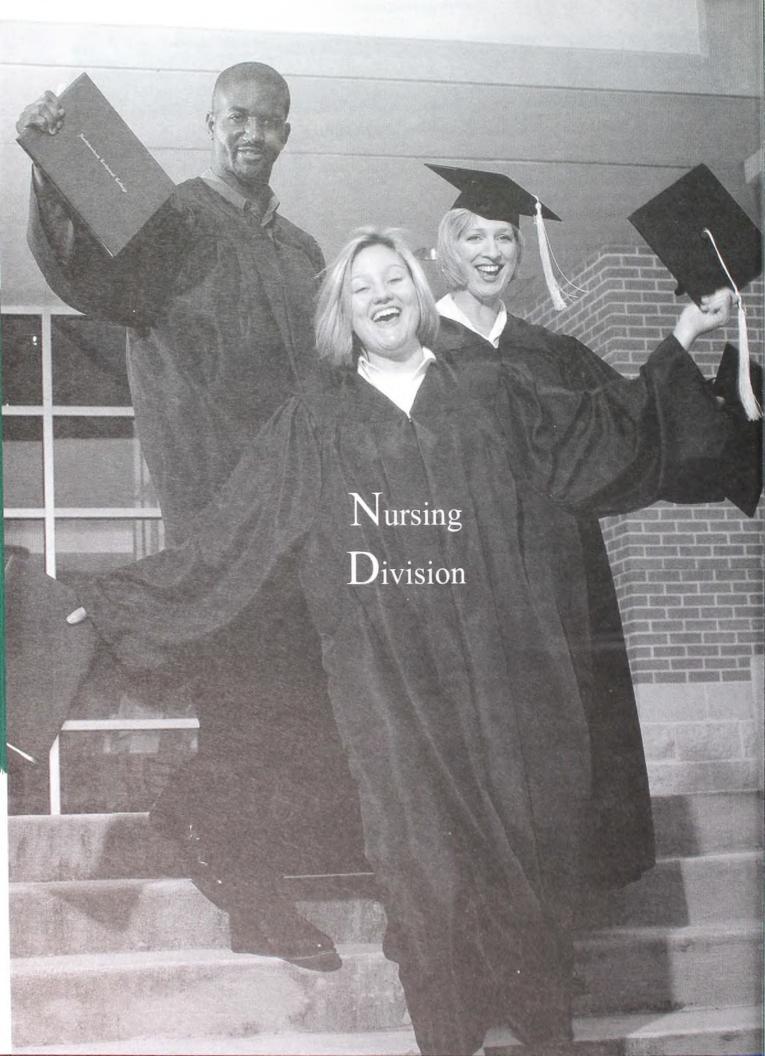
The Shielded Metal Arc Welding Certificate provides learning opportunities for individuals who need job specific training in Shielded Metal Arc Welding.

Admission Requirements:

attainment of 16 or more years of age,

achievement of program ready or provisional scores on the ASSET Placement examination, and completion of general admission requirements

Occupational Curriculum		Credit Hours
MAT 101 General Mathematics		5
WLD 100	Introduction to Welding Technology	6
WLD 103	Blueprint Reading I	3
WLD 104	Shielded Metal Arc Welding I	6
WLD 105	Shielded Metal Arc Welding II	6
WLD 106	Shielded Metal Arc Welding III	6
WLD 107	Shielded Metal Arc Welding IV	6
WLD 108	Blueprint Reading II	3
Total Credit Hours Required for Graduation		41



The Associate Degree Nursing Program @ NTC

ASSOCIATE DEGREE NURSING: AAT Degree GENERAL ADMISSION REQUIREMENTS:

Admission is competitive and based on previous academic work and performance on placement examinations. Students are selected for admission each fall quarter. The application and all related admissions materials must be completed and returned to the admissions office prior to February 1, of the year for which admission is sought. The applicant must be in good academic standing at the time of selection to be considered as a candidate for admission. Persons will be considered for admission based on the following criteria:

- 1. Be at least 17 years of age
- 2. Submit application and fees
- 3. Submit official copies of high school transcripts that document high school graduation or completion of a GED
- 4. Submit official transcripts of all course work taken at regionally accredited institution of higher education
- 5. Transfer students must meet the regular admission requirements and be in good standing at a regionally accredited institution of higher education



ASSOCIATE DEGREE NURSING PROGRAM ADMISSION REQUIREMENTS:

- 1. SAT scores of Verbal 480 and Math 440; or equivalent ACT scores of Verbal 21 and Math 19; or ASSET scores of Writing 42, Reading 41, Numerical 39, and Elementary Algebra 46.
- 2. NLN Pre-Admission Examination-RN score of not less than the 50th percentile, AD composite score
- 3. Submit two personal references
- 4. Submit an autobiography

If admitted to the AD Nursing program, the student must have the following current official documents on file in the department prior to entering any nursing course:

- 1. Basic cardiac life support certification
- 2. Verification of liability insurance
- 3. Record of physical and dental examination with physician statement that student is in satisfactory health
- 4. Results of tuberculin skin test and/or chest x-ray, hepatitis screen, rubella titer, and verification of chickenpox immunity
- 5. A written statement acknowledging that commission of a felony may prevent or impede the graduate from taking the licensure (NCLEX-RN) exam to become a registered nurse
- 6. Verification of health/accident insurance

ESSENTIAL SKILLS AND CLINICAL REQUIREMENTS

Working Environment- Works inside well-lighted, ventilated patient care unit and spends 89-90% of time in private and semi-private patient care rooms. May possibly receive cuts from sharp instruments and infections from contaminated equipment and personnel. May be exposed to communicable diseases. May possibly incur strains due to handling heavy equipment. OSHA Risk Factor - Category A.

A chance of exposure to blood and other body fluids is high and is a condition of enrollment. The position exposes the employee to noxious smell, either toxic or non-toxic, exposure to toxic fumes, gases, vapors, mists or liquids which could, depending on the chemical, cause general or localized disabling conditions as a result of inhalation, ingestion, or action on the skin.

Physical Demands- This position will primarily be medium work requiring the ability to lift up to 50 pounds with frequent lifting and/or carrying objects weighing up to 25 pounds. The ability to push or pull carts weighing up to 50 pounds is required. Occasional stooping, kneeling, reaching, and dexterity are required. Expressing or exchanging ideas by the spoken word is required. The ability to see and obtain impressions through the eyes of shape, size, distance, motions, or other characteristics of objects is required. This requires a seeing acuity of near 20/20 vision with clarity of vision at twenty inches or less, depth perception, four-way field vision, sharp eye focus, and the ability to identify and distinguish color. The ability to hear is essential. This position requires frequent sitting, standing, and/or walking. Ability to work under mental and physical stress regularly is required.

Credit Hours

4

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Requirements for the Associate Degree in Nursing; Minimum Program Length - 6 Quarters

General Core	Curriculum	Credit Hours
BIO 193	Anatomy and Physiology I	5
BIO 194	Anatomy and Physiology II	5
BIO 197	Microbiology	5
ENG 191	Composition and Rhetoric I	5
HUM 191	Introduction to Humanities	5
MAT 190/191/	Introduction to Mathematical or	
198	Modeling/College Algebra, or Introduction to Statistics	5
PSY 191	Introduction to Psychology	5
PSY 291	Human Growth and Development	5
SCT 100	Introduction to Microcomputers	3
SPC 191	Fundamentals of Speech	5

Approved Occupational Curriculum

Nursing Seminar

NUR 191	Fundamentals of Nursing I	6
NUR 192	Dosage Calculations	2
NUR 193	Lifespan Nursing Care I	8
NUR 194	Lifespan Nursing Care II	8

NUR 194 Lifespan Nursing Care II 8
NUR 291 Nursing to Promote Mental Health 8
NUR 292 Nursing of the Childbearing Family 8
NUR 293 Lifespan Nursing Care III 10

Total Credit Hours Required for Graduation 102



The Practical Nursing Program @ NTC

PRACTICAL NURSING: Diploma

The Practical Nursing Program prepares students to write the State Board of Examination for license as practical nurses. The program prepares graduates to give competent nursing care. This is done through a selected number of academic and occupational courses providing a variety of techniques and materials necessary to assist the student in acquiring the needed knowledge and skills to give competent care. A variety of clinical experiences are planned so that theory and practice are integrated under the guidance of the clinical instructor. Program graduates receive a practical nursing diploma and have the qualifications of an entry level practical nurse.



ADMISSION REQUIREMENTS FOR THE DIPLOMA:

The Practical Nursing program gives students the knowledge, skills, and attitudes necessary to succeed in practical nursing. The program provides educational opportunities regardless of race, color, national origin, religion, sex, age, disability, academic disadvantage, or economic disadvantage. Program graduates are to be competent in communications, math, interpersonal relations, anatomy and physiology, drug calculations, administration of medications, nutrition and diet therapy, nursing ethics, patient care, and wellness and prevention of illness. The Practical Nursing program strives to meet the health care needs of the community

The following guidelines have been established in considering applicants for admission to the Practical Nursing program. This policy may be evaluated and revised as deemed necessary by faculty and administration.

A. All applicants to the Licensed Practical Nursing program must meet the following requirements:

- 1. Be 17 or more years of age.
- 2. Submit application and required fees to Northwestern Technical College Admissions Office.

which it serves, working in conjunction with specific agencies that employ its graduates.

3. Take the placement examination (ASSET) and achieve required scores:

Writing 35 Reading 38 Math 38

(If the placement test results indicate that the student is not academically prepared to enter the program, the student may be granted developmental or provisional admission status to the institution and will be placed in one or more developmental classes.)

- 4. Submit official high school and college transcript or GED test results to Northwestern Technical College.
- 5. Submit a student application for Practical Nursing.
- 6. Complete developmental course work as determined by testing.
- 7. Submit two personal references.
- 8. Submit an autobiography.
- 9. Take the nursing entrance examination.
- 10. Have a personal interview with a designated school official upon satisfactory completion of the above.
- 11. Students will be selected when the above requirements have been completed based upon "first come, first served" and space available.

B. Students who are transferring from other regionally accredited nursing programs may receive advance placement if:

- 1. The above requirements have been met.
- 2. Students were in good standing at their previous institution.
- 3. A personal reference from the previously attended nursing school faculty has been submitted.
- 4. Nursing courses have been completed within two years prior to applying for admission or readmission.
- Science courses have been completed within three years prior to applying for admission or readmission.

C. Students will submit the following no later than three weeks before clinical rotation in NSG 110.

- 1. A completed physical examination including drug screen
- 2. Dental examination
- 3. Liability insurance payment
- 4. CPR certification
- 5. Rubella titer, PPD, chickenpox immunity

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RETENTION POLICIES

- 1. Students must maintain a GPA of 2.0 or better. A "C" must be achieved in each course in order to progress to the next quarter of the nursing program. In all nursing courses or AHS 102, students must attain a 75% unit test average. AHS 102 requires an 80% score on drug calculation exam.
- 2. Students must attain an overall numerical grade of 70 or better in each nursing course, including clinical rotations, to progress in the program.
- 3. A student must maintain CPR certification and carry professional liability insurance while enrolled in nursing courses.

RE-ADMISSION POLICIES

- 1. All current admission requirements must be met before applying for re-admission.
- 2. Student must continue to be in good standing with the institution and the nursing program, i.e., no disciplinary or academic misconduct on record.
- 3. Unsuccessful students will be allowed only one readmission into the nursing course in which student was unsuccessful.
- 4. After an unsuccessful course, the student is required to wait at least one quarter before re-entering that course.
- 5. After the second failure, students must re-apply to the LPN program.

PHYSICAL EXAMINATION

Students must submit a completed physical examination form to the Nursing Office three weeks before clinicals begin in the Fundamentals course. The physical must contain current information within the past three months. The form must include the results of a TB skin test or chest x-ray, rubella titer, chicken pox immunity, drug screen, and evidence of tetanus booster within the last ten (10) years. A drug screen may be required at any time if student behavior warrants.

LIABILITY INSURANCE

Students are required to purchase the liability insurance. In order for the insurance to be effective by the first clinical day, the fee will be due three weeks before the first week of clinical. The approximate cost is \$15.00.

GRADUATION REQUIREMENTS

All courses in the nursing curriculum must be completed in order to graduate. Only students who have completed required course work and receive the diploma are eligible to sit for the NCLEX-PN.

Students must demonstrate attainment of stated program competencies by achieving a predetermined score on the NLN and other diagnostic readiness tests. Students not achieving this score will be required to successfully complete remedial work prior to completion of the program.

Practical Nursing Program Essential Skills:

- 1. Meet admission standards.
- 2. Perform, read and interpret vital body signs.
- 3. Administer and evaluate all types of medications following safe procedures.
- Perform sterile and isolation techniques.
- 5. Assist in lifting, transferring, and moving patients according to set nursing standards.
- 6. Perform daily functions for patients. (Example: feed, bathe, change bed linen, positioning, elimination, etc.)
- 7. Read and interpret legal documents within the scope of nursing practice.
- 8. Perform documentation procedures.
- 9. Move throughout the clinical site in an efficient manner.
- 10. Communicate verbally and nonverbally with tact and understanding with patients, families and co-workers.
- 11. Perform and maintain CPR certification.
- 12. Demonstrate progressive independence without constant supervision.
- 13. Demonstrate persistent appropriate personal grooming in class and clinical practice.
- 14. Follow the policies and procedures of the facility used for clinical practice.

CLINICAL REQUIREMENTS WORKING ENVIRONMENT - Works inside well-lighted, ventilated patient care unit, spends 89-90% of time in private and semi-private patient care rooms. May possibly receive cuts from sharp instruments and infections from sharp instruments and infections from contaminated equipment and personnel. May be exposed to communicable diseases. May possibly incur injuries due to handling heavy equipment.

OSHA RISK FACTOR-CATEGORY A. A chance of exposure to blood and other body fluids is high and is a condition of employment. The position exposes the employee to noxious smell, either toxic or non-toxic, exposure to toxic fumes, gases, vapors, mists or liquids which could, depending on the chemical, cause general or localized disabling conditions as a result of inhalation, ingestion or action on the skin.

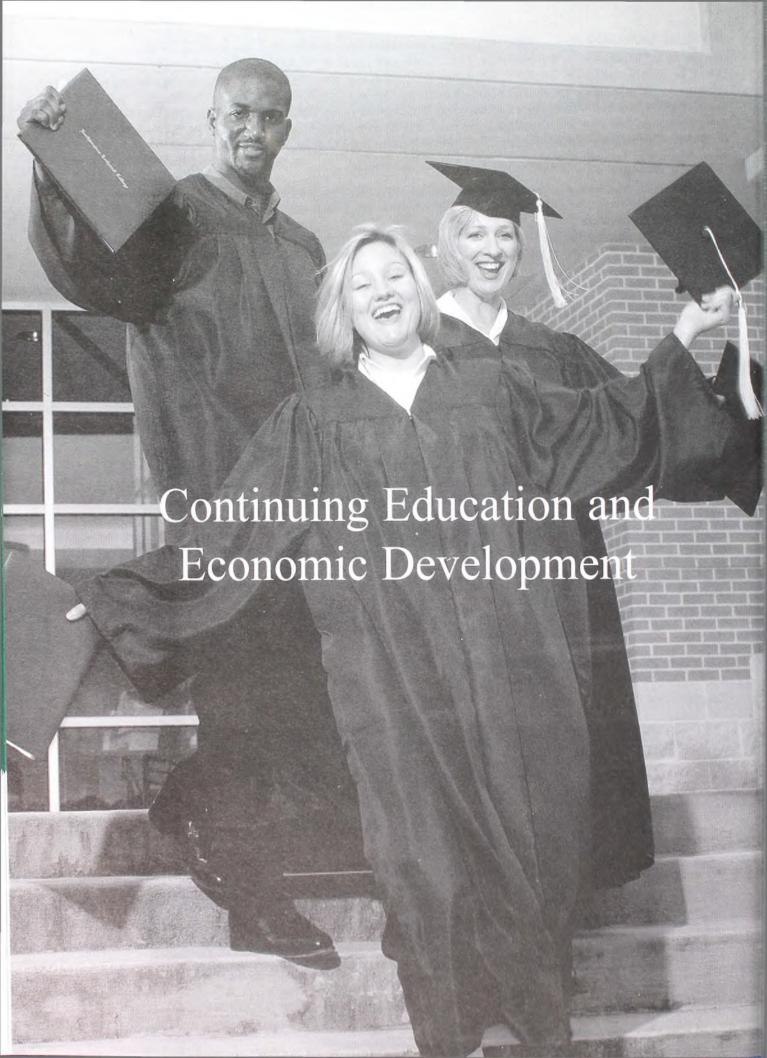
PHYSICAL DEMANDS - This position will primarily be medium work requiring the ability to lift up to 50 pounds with frequent lifting and/or carrying objects weighing up to 25 pounds. The ability to push or pull carts weighing up to 50 pounds is required. Occasional stooping, kneeling, reaching, and dexterity are required. Expressing or exchanging ideas by the spoken word is required. The ability to see and obtain impressions of shape, size, distance, motions or other characteristics of objects is required. This requires a seeing acuity of near 20/20 vision, with clarity of vision at twenty inches or less, depth perception, four-way field vision, sharp eye focus, and the ability to identify and distinguish color. The ability to hear is essential. This position requires frequent sitting, standing and/or walking. Ability to work under mental and physical stress regularly is required.

Requirements for the Diploma in Practical Nursing; Minimum Program Length - 5 Quarters

General Core Curriculum		Credit Hours 15
ENG 111	Business English	5
	OR	
ENG 101	English	5
MAT 101	General Mathematics	5
PSY 191	*Introductory Psychology	5
Occupationa	l Curriculum	Credit Hours 85
SCT 100	Introduction to Microcomputers	3
BUS 212	Anatomy & Terminology	5
AHS 101	Anatomy & Physiology	5
AHS 102	Drug Calculation and Administration	3
AHS 103	Nutrition and Diet Therapy I	2
AHS 104	Introduction to Health Care	3
AHS 150	Nutrition and Diet Therapy II	3
NSG 110	Nursing Fundamentals	10
NSG 112	Medical Surgical Nursing I	9
NSG 113	Medical Surgical Nursing II	9
NSG 212	Pediatric Nursing	5
NSG 213	Obstetrical Nursing	5
NSG 215	Nursing Leadership	2 7
NPT 112	Medical Surgical I Practicum	
NPT 113	Medical Surgical Nursing Practicum II	7
NPT 212	Pediatric Nursing Practicum	2
NPT 213	Obstetrical Nursing Practicum	3
NPT 215	Nursing Leadership Practicum	2
Total Credit	Hours Required for Graduation	100

^{*}Substituted for PSY 101





CONTINUING EDUCATION

In addition to the regular diploma programs, Northwestern Technical College offers ongoing Continuing Education short-term classes and programs. These courses are non-credit and are offered in fine arts, professional development, and personal enrichment.

Each person who satisfactorily completes a Continuing Education class receives a certificate. If requested in writing, a record of Continuing Education courses may be sent to a potential employer.

Students enrolled in Continuing Education classes do not have to take the admission examination and may register for Continuing Education courses by phone, fax, mail, or walk-in procedures. Schedules listing courses are published quarterly and are free upon request.

ECONOMIC DEVELOPMENT PROGRAMS

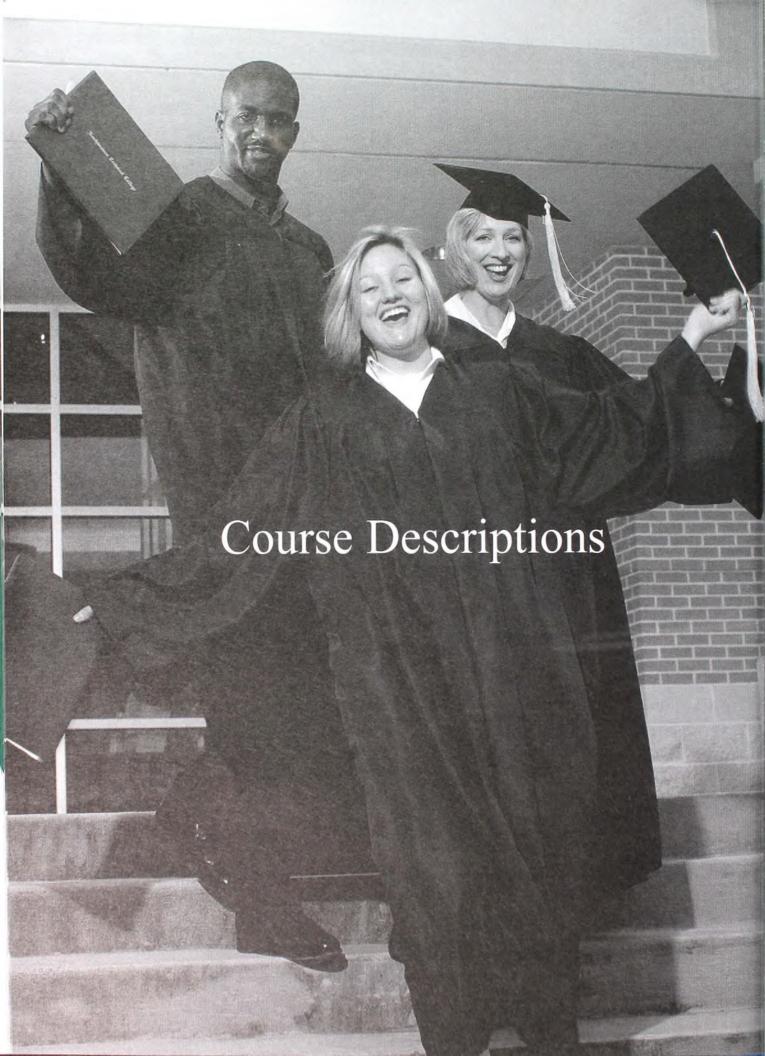
Existing Business and Industry: Northwestern Technical College's Economic Development Division can serve as the customized training resource to business and industry throughout the four county service area of Catoosa, Chattooga, Dade, and Walker Counties. With companies facing workforce challenges, remaining competitive requires constant worker training and retraining. All of a company's training needs from assessment to performance management, from basic to high technology, from productivity enhancement to employee involvement can be met through Northwestern Technical College. Training can be conducted either on campus or in the participating company's facilities.

QUICK START-Training for New and Expanding Industry: This program is administered through Northwestern Technical College and is designed to provide direct assistance to new industry or industry expansion which requires addition of production personnel and equipment. The intent of Quick Start is to train for initial start-up of a new or expanding industry. This training may include semi-skilled, skilled, technical, basic academic, and supervisory training to ensure success of trainees. Contact the Vice President for Economic Development for more information or to discuss specific industry training needs. Telephone 706-764-3591.

EXPORT ASSISTANCE: Partnering with the Georgia Department of Industry, Trade, and Tourism, Northwestern serves as a site for the Georgia International Trade Data Network (GITDN), a powerful database that provides continually updated information to support the exporting efforts of Georgia's companies. Training in exporting will help Georgia's companies more successfully compete in the global marketplace.

RETRAINING TAX CREDIT: Northwestern Technical College is the Georgia Department of Technical and Adult Education unit that approves retraining programs of existing industry seeking State of Georgia income tax credits for the counties of Catoosa, Chattooga, Dade, and Walker. Eligible business enterprises may be granted tax credits equal to one half of the direct costs of retraining up to \$500 per full-time employee per approved retraining program. Involved retraining programs are those that provide job skills for employees otherwise unable to function effectively on the job due to skill deficiencies or who would otherwise be displaced because such skill deficiencies would inhibit their utilization of new technology. New technology includes implementation of new equipment and or new operating systems such as workplace reengineering, total quality management, ISO 9000 standards, and employee involvement programs. Executive training, management development training, career development, and personal enrichment training are not included.





ACC 101 Principles of Accounting I

Prerequisite: Program ready status in math and reading

Credit Hours: 6

Introduces the student to the basic concepts of the complete accounting cycle and provides the student with the necessary skills to maintain a set of books for a sole proprietorship. Topics include accounting vocabulary for a personal service business and merchandising enterprise, business transactions, the rules of debit and credit, journalizing and posting transactions, general and subsidiary ledgers, financial statements, adjusting and closing entries, and accounting for cash. Laboratory work demonstrates theory presented in class. (Fall, Spring for Day Classes; Fall for Evening Classes)

ACC 102 Principles of Accounting 11

Prerequisite: Grade of "C" or better in ACC 101

Credit Hours: 6

Applies the basic principles of accounting to specific account classifications and subsidiary record accounting. Topics include receivables, inventory, plant assets, payroll, payables, and partnerships. Laboratory work demonstrates theory presented in class. (Winter, Summer for Day Classes; Winter for Evening Classes)

ACC 103 Principles of Accounting III

Prerequisite: Grade of "C" or better in ACC 102

Emphasizes the fundamental understanding of corporate and cost accounting. Topics include accounting for a corporation, departmental accounting, job order/process cost accounting, and budgeting. Laboratory work demonstrates theory presented in class. (Fall, Spring for Day Classes; Spring for Evening Classes)

ACC 104 Computerized Accounting

Prerequisites: ACC 102, SCT 100

Credit Hours: 3

Credit Hours: 3

Credit Hours: 6

Credit Hours: 4

Credit Hours: 4

Emphasizes operation of computerized accounting systems from manual input forms. Topics include setup and operation of equipment, general ledger, accounts receivable, accounts payable, advanced payroll, financial reports, and other topics such as inventory and depreciation for which software is available. Laboratory work includes theoretical and technical application. (Winter, Summer for Day Classes; Winter for Evening Classes)

ACC 106 Accounting Spreadsheet Fundamentals

Prerequisite: SCT 100

Provides instruction in the use of electronic spreadsheet software packages for program related spreadsheet applications. Students become proficient in creation, modification, and combination of spreadsheet. Topics include creation of spreadsheet; editing and deleting entries; introduction to macros; computations through the use of formula and/or logic functions; and program related spreadsheet applications. Laboratory work includes theoretical and technical application. (Fall, Spring for Day Classes; Spring for Evening Classes)

ACC 150 Cost Accounting

Prerequisite: Grade of "C" or better in ACC 103

Emphasizes a thorough understanding of cost concepts, cost behavior, and cost accounting techniques as they are applied to manufacturing cost systems. Topics include job order cost accounting, process cost accounting, and standard cost accounting. (Winter, Summer for Day Classes; Fall for Evening Classes)

ACC 152 Payroll Accounting

Prerequisite: ACC 101

Provides students with an understanding of the laws that affect a company's payroll structure and practical application skills in maintaining payroll records. Topics include payroll and personnel records, computing and paying wages and salaries, various taxes, and analyzing and journalizing payroll transactions. (Winter, Summer for Day Classes; Fall for Evening Classes)

ACC 156 Tax Accounting

Prerequisite: ACC 101

Provides instruction for preparation of both state and federal income tax. Topics include taxable income, income adjustments, schedules, standard deductions, itemized deductions, exemptions, tax credits, and tax calculations. (Fall, Spring for Day Classes; Spring for Evening Classes)

ACC 158 Managerial Accounting

Prerequisite: Grade of "C' or better in ACC 103

Emphasizes the interpretation of data used by management in planning and controlling business activities. Topics include budgeting, capital investment decisions, price level and foreign exchange, analysis of financial statements, and internal reporting. (Winter, Summer for Day Classes; Summer for Evening Classes)

Credit Hours: 6

ACC 160 Advanced Accounting Spreadsheet Applications

Credit Hours: 4

Prerequisite: ACC 106

Provides students with laboratory based theoretical and technical advanced spreadsheet applications. Emphasis is placed on developing an understanding of scope and application of advanced spreadsheet software. Topics include advanced computational functions, advanced data management functions, advanced file management, advanced data manipulation, advanced spreadsheet printing options, advanced spreadsheet macros, advanced spreadsheet command language, advanced graph generation, and advanced accounting and financial applications. (Winter, Summer for Day Classes; Summer for Evening Classes)

ACT 100 Refrigeration Fundamentals

Credit Hours: 4

Introduces basic concepts and theories of refrigeration. Topics include the laws of thermodynamics, pressure and temperature relationships, heat transfer, the refrigeration cycle, and safety. (Fall for Day Classes; Alternating Quarters for Evening Classes based on student need)

ACT 101 Principles and Practices of Refrigeration

Credit Hours: 7

Prerequisite/Corequisite: ACT 100

Introduces the use of refrigeration tools, materials, and procedures needed to install, repair, and service refrigeration systems. Topics include refrigeration tools, piping practices, service valves, leak testing, refrigerants, evacuation, charging, and safety. (Fall for Day Classes; Alternating Quarters for Evening Classes based on student need)

ACT 102 Refrigeration Systems Components

Credit Hours: 7

Prerequisites/Corequisites: ACT 100, ACT 101

Provides the student with the skills and knowledge to install, test, and service major components of a refrigeration system. Topics include compressors, condensers, evaporators, metering devices, service procedures, refrigeration systems, and safety. (Fall for Day Classes; Alternating Quarters for Evening Classes based on student need)

ACT 103 Electrical Fundamentals

Credit Hours: 5

Introduction to fundamental electrical concepts and theories as applied to the air conditioning industry. Topics include AC and DC theory, electric meters, electric diagrams, distribution systems, electrical panels, voltage circuits, code requirements, and safety. (Winter for Day Classes; Alternating Quarters for Evening Classes based on student need)

ACT 104 Electric Motors

Credit Hours: 3

Prerequisite/Corequisite: ACT 103

Continues the development of skills and knowledge necessary for application and service of electric motors commonly used by the refrigeration and air conditioning industry. Topics include diagnostic techniques, capacitors, installation procedures, types of electric motors, electric motor service, and safety. (Spring for Day Classes; Alternating Quarters for Evening Classes based on student need)

ACT 105 Electrical Components

Credit Hours: 5

Prerequisites/Corequisites: ACT 103, ACT 104

Provides instruction in identifying, installing, and testing commonly used electrical components in an air conditioning system. Topics include pressure switches, overload devices, transformers, magnetic starters, other commonly used controls, diagnostic techniques, installation procedures, and safety. (Winter for Day Classes; Alternating Quarters for Evening Classes based on student need)

ACT 106 Electric Control Systems and Installation

Credit Hours: 4

Prerequisite/Corequisite: ACT 105

Provides instruction on wiring various types of air conditioning systems. Topics include servicing procedures, solid state controls, system wiring, control circuits, and safety. (Winter for Day Classes; Alternating Quarters for Evening Classes based on student need)

ACT 107 Air Conditioning Principles

Credit Hours: 8

Prerequisites/Corequisites: ACT 102, ACT 106, MAT 101, and program admission

Introduces fundamental theory and techniques needed to identify major components and functions of air conditioning systems. Instruction is given on types of air conditioning systems and use of instrumentation. Topics include types of AC systems, heat-load calculation, properties of air, psychometrics, duct design, air filtration, and safety principles. (Summer for Day Classes; Alternating Quarters for Evening Classes based on student need)

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ACT 108 Air Conditioning Systems and Installation

Prerequisite/Corequisite: ACT 107

Provides instruction on the installation and service of residential air conditioning systems. Topics include installation procedures, service, split-systems, add-on systems, packaged systems, and safety. (Summer for Day Classes; Alternating

Quarters for Evening Classes based on student need)

ACT 109 Troubleshooting Air Conditioning Systems

Prerequisites/Corequisites: ACT 108, ENG 111

Credit Hours: 7

Credit Hours: 5

Credit Hours: 3

Provides instruction on troubleshooting and repair of major components of a residential air conditioning system. Topics include troubleshooting techniques, electrical controls, air flow, refrigeration cycle, and safety. (Summer for Day Classes; Alternating Quarters for Evening Classes based on student need)

ACT 110 Gas Heating Systems

Prerequisites: ACT 102, ACT 106, MAT 101

Introduces principles of combustion and service requirements for gas heating systems. Topics include service procedures, electrical controls, piping, gas valves, venting, code requirements, principles of combustion, and safety. (Fall for Day Classes; Alternating Quarters for Evening Classes based on student need)

ACT 111 Heat Pumps & Related Systems

Prerequisite/Corequisite: ACT 110

Credit Hours: 6

Provides instruction on installation and servicing of electric heating systems, heat pumps, and related systems. Topics include: installation procedures, servicing procedures, troubleshooting, valves, electrical components, safety, geothermal ground source energy supplies, and dual fuels. (Spring for Day Classes; Alternating Quarters for Evening Classes based on student need)

AHS 101 Anatomy and Physiology

Credit Hours: 5

Focuses on basic normal structure and function of the human body. Topics include an overview of each body system, how systems coordinate activities to maintain a balanced state, recognizing deviations from the normal. Medical terminology, including basic word structure and terms related to body structure and function, are taught as an integral part of the course.(Quarterly for Day Classes; Fall for Evening Classes)

AHS 102 Drug Calculation and Administration

Credit Hours: 3

Prerequisite: MAT 101

Utilizes basic mathematical concepts and includes basic drug administration. Topics include resource materials, systems of measurement, abbreviations, drug calculations, and administration of medications in a simulated clinical environment. (Fall, Spring for Day Classes; Fall, Winter for Evening Classes)

AHS 103 Nutrition and Diet Therapy I

Credit Hours: 2

A study of the nutritional needs of the individual. Topics include basic nutrients, food sources, the role nutrition plays in the maintenance of health for the individual, social aspects of diet, patient assessment, and diet planning and preparation. (Quarterly for Day Classes; Fall for Evening Classes; Fall, Spring for Internet Classes)

AHS 104 Introduction to Health Care

Credit Hours: 3

Introduces a grouping of fundamental principles, practices, and issues common to many specializations in the health care profession. Topics include: basic life support, CPR, basic emergency care/first aid, vital signs, infection control, and blood/air borne pathogens. (Quarterly for Day Classes; Summer for Evening Classes)

AHS 109 Medical Terminology for Allied Health Sciences

Credit Hours: 3

Credit Hours: 3

Introduces the elements of medical terminology. Emphasis is placed on building familiarity with medical words through knowledge of roots, prefixes, and suffixes. Topics include origins, word building, abbreviations and symbols, terminology related to the human anatomy, reading medical orders and reports, and terminology specific to the student's field of study.

AHS 150 Nutrition and Diet Therapy II

Corequisite: AHS 103

A continuation of the nutritional needs of the individual began in AHS 103. Topics include nutrients, food sources, the role nutrition plays in the maintenance of health for the individual, diet therapy, and the use of appropriate diets to treat certain pathologic conditions. (Fall, Spring for Day Classes; Fall for Evening Classes; Fall, Spring for Internet Classes)

AMF 152 Manufacturing Organizational Principles

Credit Hours: 2

Provides students with an overview of the functional and structural composition of manufacturing organizations. Topics include: manufacturing/consumer connection, manufacturing operational types, structure of manufacturing organizations, manufacturing business principles, and types of manufacturing processes. (Quarterly for Day Classes)

AMF 154 Manufacturing Workforce Skills

Credit Hours: 2

Provides students with the knowledge and skills needed to succeed in the manufacturing environment. Topics include listening, working together, change management, stress management, decision making, and job interview skills to create a positive image. (Quarterly for Day Classes)

AMF 156 Manufacturing Production Requirements

Credit Hours: 2

Provides students with the knowledge and skills associated with quality and productivity in the manufacturing environment Topics include world class manufacturing, tools for excellence, and statistical process control. (Quarterly for Day Classes)

AMF 158 Automated Manufacturing Skills

Credit Hours: 4

Provides students with an introduction into computerized process control and the operational requirements associated with automated machines in the manufacturing environment Topics include basic mechanics, mechanical systems, hand tools, power tools, industrial controls, electrical safety, hydraulic systems, pneumatic systems, troubleshooting principles, and computers and automated principles. (Quarterly for Day Classes)

AMF 160 Representative Manufacturing Skills

Credit Hours: 5

Provides students with an introduction to representative manufacturing skills and associated safety requirements. Topics include plant safety, material movement, equipment, precision measurements for manufacturing, and blueprint reading. (Quarterly for Day Classes)

BIO 193 Anatomy and Physiology I

Credit Hours: 5

Introduces students to the anatomy and physiology of the human body. Emphasis is placed on the development of a systemic perspective of anatomical structures and physiological processes. Topics include body organization, cell structure and function, tissue classifications, the integumentary system, the skeletal system, the muscular system, the nervous system, and the endocrine system. Laboratory experience supports classroom learning. Minimum grade of "C" required to advance to BIO 194, Anatomy and Physiology II. (Spring for Day Classes Only)

BIO 194 Anatomy and Physiology II

Credit Hours: 5

Prerequisite: BIO 193 with a grade of "C' or better

Continues the study of the anatomy and physiology of the human body. Topics include the reproductive system and development, the cardiovascular and lymphatic systems, the digestive system, the respiratory system, the urinary system, the immune system, and metabolism. Laboratory experience supports classroom learning. (Summer for Day Classes Only)

BIO 197 Medical Microbiology

Credit Hours: 5

Prerequisite: BIO 193 and 194 with a grade of "C" or better

This course is designed to provide the student with a foundation in basic microbiology with emphasis on infectious diseases. The student will gain an understanding of the various characteristics of microorganisms in general and the specific characteristics of pathogenic or disease-causing microorganisms. In addition, a study of the host-parasite relationship, the mechanism of host defense, epidemiology, and antimicrobial and chemotherapeutic agents will be conducted. Laboratory experience supports classroom learning.

BUS 101 Beginning Document Processing

Credit Hours: 5

Prerequisite: Provisional Admission

Introduces the touch system of keyboarding placing emphasis on correct techniques, mastery of the keyboard, and basic business documents. Students attain a minimum typing speed of 25 words per minute with a maximum of 3 errors on a 3-minute timed keyboarding test. Topics include: learning the keyboard, building speed and accuracy, formatting basic business documents, language arts, and proofreading. Laboratory practice parallels class instruction. Minimum grade of "C" to advance to BUS 102. (Quarterly for Day, Evening; Fall, Spring for Internet Classes)

BUS 102 Intermediate Document Processing

Prerequisite: BUS 101, SCT 100

Credit Hours: 5

Continues the development of keyboarding speed and accuracy with further mastery of correct keyboarding techniques. Students attain a minimum keyboarding speed of 40 words per minute with a maximum of 5 errors on a 5-minute timed keyboarding test. Topics include: building speed and accuracy, formatting and producing business documents, language arts, and proofreading. Laboratory practice parallels class instruction. Minimum grade of "C" to advance to BUS 103. (Quarterly for Day, Evening: Winter, Summer for Internet Class)

BUS 103 Advanced Document Processing

Prerequisites: BUS 102, ENG 111

Credit Hours: 5

Continues the development of keyboarding speed and accuracy with mastery of complex document production. Students attain a minimum keyboarding speed of 50 words per minute with a maximum of 5 errors on a 5-minute timed keyboarding test. Topics include: building speed and accuracy, integrated projects/applications, language arts, and proofreading. Laboratory practice parallels class instruction. (Quarterly for Day and Evening Class)

BUS 105 Database Fundamentals

Prerequisites: Program admission, SCT 100

Credit Hours: 3

Credit Hours: 5

Credit Hours: 3

Credit Hours: 7

Credit Hours: 3

Emphasizes use of database management software packages to access, manipulate, and create file data. Topics include: data entry, data access, data manipulation, database creation, and file documentation.

BUS 106 Office Procedures

Prerequisites: BUS 101, SCT 100

Emphasizes essential skills required for the business office. Topics include: office protocol, time management, telecommunications and telephone techniques, office equipment, office mail, references, records management, and travel and meeting arrangements. (Fall, Winter, Spring for Day Class; Spring for Evening Class; Summer, Winter for Internet Class)

BUS 107 Machine Transcription

Prerequisites: BUS 102, SCT 100, ENG 111

Emphasizes transcribing mailable documents from recordings using a word processor. Topics include proper maintenance and usage of equipment and supplies, work area management, transcription techniques, proper formats, speed and accuracy, proofreading, grammar, spelling, and punctuation. (Quarterly for Day; Fall and Spring for Evening Class)

BUS 108 Word Processing

Prerequisites: BUS 101, and/or SCT 100

Emphasizes an intensive use of word processing software to create and revise business documents. Topics include: equipment and supplies maintenance and usage, work area management, word processing software, and proofreading. (Quarterly for Day Class; Winter, Summer for Evening Class; Fall, Spring for Internet Class)

BUS 109 Applied Office Procedures

Prerequisites: BUS 102, BUS 108

Applied Office Procedures serves as a capstone course which provides students with the opportunity to apply skills acquired in other coursework. Topics include application of word/information processing skills, communication skills, telecommunication skills, and records management skills, public relation skills, use of office equipment, and office equipment/supplies procurement. (Fall, Spring for Day Class; Winter for Evening Class)

BUS 151 Introduction to Business

Credit Hours: 5

Credit Hours: 3

Introduces organization and management concepts of the business world. Topics include business organization, enterprise management, marketing management, and financial management. (Fall, Spring for Day Class; Winter for Evening Class)

BUS 158 Legal Terminology

Prerequisite: Provisional Admission

Introduces the elements of legal terminology. Emphasis is placed on a building familiarity with legal words that apply to the court system, contracts, family law, real estate, litigation, wills/probate, bankruptcy, and general legal terms. (Fall, Spring for Day Class)

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BUS 161 Desktop Publishing I

Prerequisites: BUS 101, SCT 100

Credit Hours: 5

Credit Hours: 5

Credit Hours: 3

Credit Hours: 3

Emphasizes intensive use of desktop publishing software to create publications such as letterheads, resumes, fliers, brochures, reports, newsletters, and business cards. Topics include desktop publishing concepts, operation of DTP software, electronics page layout, basic graphic design, and practical applications. (Winter, Summer for Day Class; Fall, Spring for Evening Class)

BUS 162 Desktop Publishing II

Prerequisites: BUS 101, BUS 161, SCT 100

Emphasizes intensive use of desktop publishing software to create advanced publications such as advertisements, proposals, manuals, catalogues, and newspapers. Topics include: advanced layout and design, style sheets and templates, advanced graphic design, printing capabilities, and practical applications. (Fall, Spring for Day Class; Winter for Evening Class)

BUS 201 Advanced Word Processing

Prerequisites: BUS 108 with a minimum grade of "C". ENG 111

Provides instruction in advanced word processing. Topics include: advanced word processing concepts and applications, and proofreading. (Quarterly for Day Class; Spring for Evening Class; Winter, Summer for Internet Class)

BUS 202 Spreadsheet Fundamentals

Prerequisites: Program admission, MAT 111, SCT 100

Provides instruction in the use of electronic spreadsheet software in business applications. Students become proficient in creating and modifying spreadsheets in a business environment and in printing files that meet business standards. Topics include: spreadsheet creation, data entry, entry modification, computation using functions, charts and graphs, and printing.

BUS 204 Half-Time Business Office Specialist Internship

Credit Hours: 6 Prerequisite: Must be in last quarter of program. Students may take last quarter course work and internship concurrently

with permission of the Department Head.

Provides students work experience in a professional environment. Topics include: application of classroom knowledge and skills, work environment functions, and listening/following directions. Students will be under the supervision of the Business and Office Technology program faculty and/or persons designated to coordinate work experience arrangements. (Quarterly for Day and Evening Classes)

BUS 205 Half-Time Medical Office Specialist Internship

Credit Hours: 6

Prerequisite: Must be in last quarter of program. Students may take last quarter course work and internship concurrently with permission of the Department Head.

Provides the student work experience in a medical environment. Topics include: application of classroom knowledge and skills, work environment functions, and listening/following directions. Students will be under the supervision of the Business and Office technology program faculty and/or persons designated to coordinate work experience arrangements. (Quarterly for Day and Evening Classes)

BUS 206 Half-Time Legal Office Specialist Internship

Credit Hours: 6

Prerequisite: Must be in last quarter of program. Students may take last quarter course work and internship concurrently with permission of the Department Head.

Provides the student work experience in a legal environment. Topics include: application of classroom knowledge and skills, work environment functions, and listening/following directions. Students will be under the supervision of the Business and Office technology program faculty and/or persons designated to coordinate work experience arrangements. (Quarterly for Day and Evening Classes)

BUS 208 Office Accounting

Prerequisite: MAT 111

Credit Hours: 5

Introduces fundamental concepts of accounting. Topics include: accounting equation, debits, credits, journalizing, posting and providing ledger, accounts receivable, accounts payable, and payroll. Both manual and computerized concepts are taught. (Winter, Summer for Day Class; Fall, Spring for Evening Class)

BUS 211 Medical Terminology

Credit Hours: 4

Introduces the basic spelling and pronunciation of medical terms and the use of these terms as they relate to anatomy, treatment, surgery, and drugs. Topics include medical prefixes, roots, suffixes, word elements, spelling, pronunciation, and meaning. (Winter, Summer for Day Class; Fall for Evening Class, Quarterly for Internet Class)

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BUS 212 Anatomy and Terminology

Prerequisite: BUS 211

Credit Hours: 5

Introduces the structures and functions of the human body including medical terminology. Topics include spelling; pronunciation; medical terminology; definitions and anatomical terms; and location, identification, and functions of body parts and systems. (Quarterly for Day, Evening, and Internet Classes)

BUS 213 Medical Document Processing/Transcription

Prerequisites: BUS 212, BUS 211, ENG 111

Credit Hours: 5

Provides experience in medical transcription working with the most frequently used medical reports. Topics include: equipment and supplies maintenance and usage, work area management, spelling, definitions, punctuation, processing/transcription speed and accuracy, resource utilization, and pronunciation. (Quarterly for Day Class; Summer, Winter for Evening Class; Fall, Spring for Internet Class)

BUS 215 Medical Office Specialist Internship

Prerequisites: Successful completion of all required coursework

Provides student work experience in an off-campus medical environment. Topics include applying classroom knowledge and skills, working cooperatively with co-workers and management, and listening and following directions. Students will be under the supervision of the Business and Office Technology program faculty and/or persons designated to coordinate work

Credit Hours: 12

experience arrangements. (Quarterly for Day and Evening Classes)

BUS 216 Medical Office Procedures

Prerequisites: BUS 102, 212

Credit Hours: 5

Credit Hours: 7

Credit Hours: 7

Credit Hours: 12

Credit Hours: 12

Credit Hours: 8

Emphasizes essential skills required for the medical office. Topics include medical law and ethics, patient relations, scheduling appointments, medical records management, pegboard accounting, health insurance, and billing/collection. (Fall, Spring for Day Class; Spring for Evening Class; Winter, Summer for Internet Class)

BUS 217 Legal Procedures I

Prerequisites: BUS 102, ENG 111, BUS 158, BUS 227

Introduces office procedures practiced by the legal secretary. Topics include: preparation of legal documents and correspondence, ethics, and legal office procedures. Specific topics covered include: legal office duties, the courts and documents, litigation, criminals, wills, probate, real estate, corporations, family law, and non-court documents. Minimum grade of "C" required to advance to BUS 218. (Winter for Day Class)

BUS 218 Legal Procedures II

Prerequisite: ENG 112, BUS 217 with a minimum grade of "C"

Continues office procedures practiced by the legal secretary. Topics include: preparation of legal documents and correspondence, ethics, and legal office procedures. Specific topics covered include: legal office duties, the courts and court documents, litigation, criminals, wills, probate, real estate, corporations, family law, and non-court documents. (Spring for Day Class)

BUS 219 Legal Office Specialist Internship

Prerequisite: Successful completion of all required coursework

Provides students work experience in an off-campus legal environment. Topics include applying classroom knowledge and skills, working cooperatively with co-workers and management, and listening and following directions. Students will be under the supervision of the Business and Office Technology program faculty and/or persons designated to coordinate work experience arrangements. (Quarterly for Day Class)

BUS 224 Business Office Specialist Internship

Provides students work experience in an off-campus office environment. Topics include applying classroom knowledge and skills, working cooperatively with co-workers and management, listening and following directions. Students will be under the supervision of the Office Technology program faculty and/or persons designated to coordinate work experience arrangements (Quarterly for Day and Evening Classes)

BUS 225 Office Simulation

Prerequisite: Successful completion of all course work in a Business and Office Technology specialization area.

Provides realistic patterns of office activities in a simulated office environment. Topics include integrating, developing, and applying a wide range of occupational knowledge and skills; cooperatively interacting with co-workers; and listening and following directions. (Quarterly for Day and Evening Classes)

(706) 764-3510 or 1-800-735-5726

BUS 226 Medical Office Billing/Coding/Insurance

Credit Hours: 5

Prerequisite: BUS 212, BUS 211, BUS 101, ENG 111

Provides an introduction to medical coding skills and application of international coding standards for billing of health care services. Provides the knowledge and skills to apply coding of procedures for billing purposes. Provides an introduction to medical coding as it relates to health insurance. Topics include: international classification of diseases; code book formats; guidelines and conventions; coding techniques; formats of the ICD-9 and CPT manuals; health insurance; billing and collections. (Fall, Spring for Day Class; Winter, Summer for Evening Class)

BUS 227 Legal Document Processing/Transcription

Credit Hours: 3

Prerequisite: BUS 102, ENG 112, BUS 108, BUS 217

Provides experience in legal transcription working with the most frequently used legal reports. Topics include: equipment and supplies maintenance and usage, work station management, spelling, definitions, punctuation, processing/transcription speed and accuracy, resource utilization, and pronunciation. (Fall, Spring for Day Class)

CIS 103 Operating Systems Concepts

Credit Hours: 6

Prerequisite/Corequisite: SCT 100

Provides an overview of operating systems functions and commands that are necessary in a computer working environment. Topics include multiprogramming, single and multi-user systems, resource management, command languages, and operating system utilities, file system utilization and multiple operating systems. (Every Quarter for Day Classes; Spring, Fall for Evening Classes)

CIS 105 Program Design and Development

Credit Hours: 5

Prerequisite/Corequisite: CIS 106

Provides an emphasis on business problem identification and solution through systems of computer programs using such tools as structure charts, flowcharts, and pseudocode. Topics include problem solving process, fundamentals of structured programming, program development building blocks, fundamentals of file and report structure, and business application structure. (Fall, Spring for Day Classes; Winter for Evening Classes)

CIS 106 Computer Concepts

Credit Hours: 5

Prerequisite/Corequisite: SCT 100

Provides an overview of computers and information processing. Topics include computer history and terminology, data representation, data storage concepts, fundamentals of information processing, fundamentals of hardware operation, fundamentals of communications and networking, structured programming concepts, program development methodology, system development methodology, and computer number systems. (Fall, Spring for Day Class; Summer for Evening Class; Spring for Internet Class)

CIS 112 Systems Analysis and Design

Credit Hours: 6

Prerequisite: CIS 105, Programming Language Preferred

Provides a review and application of systems life cycle development methodologies implemented by project teams. Topics include role of systems analysis and design, preliminary investigation, systems analysis phase, systems design phase, systems development phase, implementation and evaluation, and post-implementation systems operation. (Fall, Spring for Day Classes; Winter for Evening Classes)

CIS 113 COBOL I

Credit Hours: 7

Prerequisite/Corequisite: CIS 105

Provides a study of the COBOL programming language to solve business applications. Topics include divisions, input/output operations, arithmetic operations, sequence verbs, conditional control, editing input, and single level control breaks. (Spring for Evening Classes)

CIS 114 COBOL II

Credit Hours: 7

Prerequisite: CIS 113 with a minimum grade of "C" or better

Reinforces and extends the concepts and applications provided in COBOL I. Topics include multi-level control breaks, elementary table processing, debugging techniques, elementary sorting, and sequential file processing. (Summer for Evening Classes)

CIS 122 Microcomputer Installation and Maintenance

Credit Hours: 7

Prerequisite: SCT 100, CIS 103

Provides an introduction to the fundamentals of installing and maintaining microcomputers. Topics include identifying components and their functions, safety, installation procedures, troubleshooting techniques, and preventive maintenance. (Spring, Fall for Day Classes; Summer, Winter for Evening Classes)

CIS 124 Microcomputer Database Programming

Prerequisite/Corequisite: CIS 105, CIS 2229

Credit Hours: 7

Provides a study of database programming using microcomputer database management systems (DBMS) software packages. Topics include development of systems, structured programming techniques, data editing, and output design. (Fall, Spring for Day Classes; Fall for Evening Classes)

CIS 127 Word Processing and Desktop Publishing Techniques

Prerequisite: SCT 100

Credit Hours: 6

Credit Hours: 7

Credit Hours: 7

Credit Hours: 3

Credit Hours: 7

Credit Hours: 6

Credit Hours: 3

Provides a study of word processing and desktop publishing. Topics include word processing fundamentals, desktop publishing fundamentals, advanced word processing concepts, development of macros, and presentation graphics fundamentals. (Fall, Spring for Day Classes; Winter for Evening Classes; Fall, Spring for Internet Classes)

CIS 146 Microsoft NT Administration

Prerequisite: CIS 1140

Provides a study of Microsoft NT administration. Topics include: NT file system, NT integrity and security, NT system and user account automation, NT domains, NT trust relationships, NT directory replication, NT systems optimization, NT clients, NT printing, NT communications, and network software installation. (Fall, Spring for Day Classes; Spring for Evening Classes)

CIS 149 Advanced C++ Programming

Prerequisite: CIS 105

Introduces object oriented programming. Common elements of Windows applications will be discussed and created using a C+ + integrated development environment. TOPICS include object oriented programming, Windows applications, user interface design, capturing and validating input, event-driven programming design, conditional processing, and incorporating graphics. (Winter, Summer for Day Classes)

CIS 155 Working With Microsoft Windows Software

Prerequisite: SCT 100

Provides the interface concepts of Microsoft Windows software and the opportunity to develop software application skill in a wide range of business situations. Topics include getting started with Microsoft Windows, managing programs and files with Microsoft Windows, using Microsoft Windows "write" and "paintbrush" features, data transfer with Microsoft Windows, printing with Microsoft Windows, and customizing with Microsoft Windows. (Winter, Summer for Day Classes; Spring for Evening Classes; Fall, Spring for Internet Classes)

CIS 157 Introduction to Windows Programming

Using Microsoft Visual Basic

Coreguisite: CIS 105 Recommended

Introduces Microsoft Windows event-driven programming. Along with the new method of programming, common elements of Windows applications will be discussed. These elements will be created and manipulated using Microsoft's Visual BASIC development environment. Topics include Windows applications, user interface design, capturing and validating input, event-driven programming design, conditional processing, file processing, and incorporating graphics. (Fall, Spring for Day Classes; Fall for Evening Classes)

CIS 214 Database Management

Prerequisite: Programming Language Course

Provides an overview of the skills and knowledge of database application systems used in business, government, and industry. Topics include models, structures, physical database, logical database, and accessing techniques. (Winter, Summer for Day Classes; Spring for Evening Classes)

CIS 221 Advanced Microsoft Word

Prerequisite: CIS 127

Provides the fundamental, intermediate and advanced Microsoft Word competencies to provide the user with the skills necessary to obtain the expert user certification. Topics include workgroup editing, and advanced features such as macros, mailmerge, HTML creation, and tables. (Summer, Winter for Day Classes; Fall for Evening Classes; Winter for Internet Classes)

C 0 U R S E D E S C R I P T Ī 0 N S

CIS 222 Advanced Microsoft Excel

Credit Hours: 3

Prerequisite: CIS 2228

Provides the fundamental, intermediate, and advanced Microsoft Excel competencies to provide the user with the skills necessary to obtain the expert user certification. Topics include spreadsheet creation, financial statements, forecast, amortization schedules, workgroup editing and advanced features such as macros, using charts, importing and exporting data, HTML creation, formulas, WEB queries, built-in functionality, templates, and trends and relationships. (Fall and Spring for Day Classes; Winter for Evening Classes; Fall for Internet Classes)

CIS 223 Advanced Microsoft Access

Credit Hours: 3

Prerequisite: CIS 2229

Provides the fundamental, intermediate, and advanced Microsoft Access competencies to provide the user with the skills necessary to obtain the expert user certification. Topics include creating and modifying a database, locating information, macro and module creation and advanced features such as advanced queries, forms, advanced reports, sub-form creation, HTML creation, data integrity, and integration with other applications. (Fall and Spring for Day Classes; Summer for Evening Classes; Summer for Internet Classes)

CIS 224 Advanced Microsoft PowerPoint

Credit Hours: 3

Prerequisite: CIS 127

Provides the fundamental, intermediate, and advanced Microsoft PowerPoint competencies to provide the user with the skills necessary to obtain expert user certification. Topics include presentation creation, presentation views, slide shows, templates, animation, HTML creation, navigation, and presentation transition. (Summer and Winter for Day Classes; Spring for Evening Classes; Winter for Internet Classes)

CIS 250 Introduction to RPG Programming

Credit Hours: 7

Prerequisite/Corequisite: CIS 105

Introduces programming business applications using the RPG programming language. Topics include introduction to RPG programming, input and output processing, arithmetic operations, edit codes/words, selection operations, control breaks, multiple control breaks, do loops, exception output, external files-physical and logical, and sequential file access methods.(Winter, Summer for Day Classes; Summer for Evening Classes)

CIS 251 Advanced RPG Programming

Credit Hours: 7

Prerequisite: CIS 250 with a minimum grade of "C" or better

Provides an emphasis on designing and writing programs using the RPG programming language. Topics include table and array processing, data validation, data structures, interprogram communication, random file access methods, file updating, and interactive processing. (Fall, Spring for Day Classes; Fall for Evening Classes)

CIS 252 Introduction to JAVA Programming

Credit Hours: 7

Course designed to teach the basic concepts and methods of objected-oriented design and Java programming. Use practical problems to illustrate Java application building techniques and concepts. Develop an understanding of Java vocabulary. Create an understanding of where Java fits in the application development landscape. Create an understanding of the Java Development Kit and how to develop, debug, and run Java applications using the JDK and Notepad as an editor. Continue to develop student's programming logic skills. Topics include: JAVA Language History, JAVA Variable Definitions, JAVA Control Structures, JAVA Methods, JAVA Classes, JAVA Objects, and JAVA Graphics. (Every Quarter for Day Classes)

CIS 276 Advanced Routers and Switches

Credit Hours: 6

Prerequisite: CIS 2321, CIS 2322

Provides a review and advance topics of data communications and networks. Topics include LAN Switching, VLANs and LAN Design, IGRIP, Access Lists, and IPX. (Fall, Spring for Day Classes; Winter for Evening Classes)

CIS 277 WAN Design

Credit Hours: 6

Prerequisite: CIS 2321, CIS 2322, CIS 276

Provides an introduction to WAN design. Topics include WANs and WAN Design, PPP, ISDN, Frame Relay, and review for CCNA Exams. (Winter, Summer for Day Classes; Spring for Evening Classes)

0 U R S E D E S C R I P T I 0 N S

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CIS 1140 Networking Fundamentals

Prerequisite: SCT 100 and CIS 106 or advisor approval

Credit Hours: 6

Credit Hours: 6

Introduces networking technologies and prepares students to take CompTIA's broad-based, vendor independent networking certification exam, Network +, Covers a wide range of material about networking, from careers in networking to local area networks, wide area networks, protocols, topologies, transmission media, and security. Focuses on operating network management systems, and implementing the installation of networks. It reviews cabling, connection schemes, the fundamentals of the LAN and WAN technologies, TCP/IP configuration and troubleshooting, remote connectivity, and network maintenance and troubleshooting.

CIS 2149 Implementing Microsoft Windows Professional

Credit Hours: 6 Prerequisite: CIS 103, CIS 1140 or Advisor Approval

Provides the ability to implement, administrator, and troubleshoot Windows Professional as a desktop operating system in a

network environment. (Contact your advisor for scheduling.)

CIS 2150 Implementing Microsoft Windows Server

Credit Hours: 6 Prerequisite: CIS 2149

Provides the ability to implement, administrate, and troubleshoot Windows Server as a member server of a domain in an Active Directory environment. (Contact your advisor for scheduling.)

CIS 2153 Implementing Microsoft Windows

Networking Infrastructure

Credit Hours: 6 Prerequisite: CIS 2150

Provides students with knowledge and skills necessary for new-to-product support professionals who will be responsible for installing, configuring, managing, and supporting a network infrastructure that uses the Microsoft Windows server family of products. (Contact your advisor for scheduling.)

CIS 2154 Implementing Microsoft Windows

Networking Directory Services

Prerequisite: CIS 2150

Provides students with knowledge and skills necessary to install, configure, and administer the Microsoft Windows Active Directory service. The course also focuses on implementing Group Policy and understanding the Group Policy tasks

required to centrally manage users and computers. (Contact your advisor for scheduling.)

CIS 2158 Designing a Microsoft Windows 2000

Networking Services Infrastructure Credit Hours: 7 Prerequisite/Corequisite: (Supporting a Network Infrastructure Using Microsoft Windows 2000)

This course is intended to teach the skills required to analyze the business requirements for a network infrastructure and design a network infrastructure that meets business requirements. Network infrastructure elements include: Network topology, Routing, IP addressing, Name resolution such as WINS and DNS, Virtual private networks, Remote access, and Telephony solutions. It is also designed to help a student prepare for the corresponding Microsoft Certified Professional examination. (Contact your advisor for scheduling.)

CIS 2191 Internet Business Fundamentals

Credit Hours: 5

Prerequisite: Program admission

Internet Business Fundamentals teaches students how to access the Internet and the World Wide Web using a Web Brower as a general-purpose Internet application. Students will learn to use the Internet for e-mail, the World Wide Web, newsgroups, Gopher, Veronica, File Transfer Protocol (FTP) and Telnet. Student will gain experience using and configuring both Netscape Navigator and Microsoft Internet Explorer to access rich multimedia data and objects as well as Java, Shockwave, and Active X content. A variety of Web-based search engines will be used to conduct advanced searches and learn the basics of project leadership, security, and e-business solutions. Students will also learn about business on the Internet, and how business research can help gain market intelligence. (Winter, Summer for Day Classes; Fall for Evening Classes)

Credit Hours: 3 CIS 2201 HTML Fundamentals

Prerequisite: Program admission HTML Fundamentals is designed to teach basic through intermediate concepts in Hypertext Markup Language (HTML) authoring, including forms, complex table design, graphic elements, and client-side image maps. Students will design interlinking pages that incorporate, design, graphic elements, and client-side image maps. Students will design inter-linking pages that incorporate, in practical applications, a wide range of HTML tags and attributes. (Winter, Summer for Day

Classes; Summer for Evening Classes)

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CIS 2211 Web Site Design Tools

Credit Hours: 6

Prerequisite: Program admission

Web Site Design Tools teaches an understanding of how to create and manage impressive s using the sizeable amounts of new technology available on the Web. Students will learn to create web sites using various web tools such as FrontPage, NetObjects Fusion, Dynamic HTML, and various multimedia and CSS standards. (Winter, Summer for Day Classes; Spring for Evening Classes)

CIS 2221 Web Graphics and Multimedia

Credit Hours: 6

Prerequisite: Program admission

Web Graphics and Multimedia teaches the use of powerful tools for modeling scanned images and illustrations into creative artwork. In this course, students will learn techniques for quickly creating attractive textures for backgrounds, com-positing images seamlessly, simulating surface reflections and shadows, and creating effects with type. Advanced tools will be used for selecting parts of images, moving, duplicating, and resizing images. Students will utilize painting tools to manipulate images, and will perform adjustments to contrast and color balance. (Fall, Spring for Day Classes; Fall for Evening Classes)

CIS 2228 Spreadsheets Techniques

Credit Hours: 6

Prerequisite: SCT 100

Provides a study of spreadsheets. Topics include: advanced spreadsheet concepts, development of macros, data integration concepts, troubleshooting spreadsheets. (Fall, Spring for Day Classes; Winter, Summer for Evening Classes; Fall, Spring for Online Classes)

CIS 2229 Database Techniques

Credit Hours: 6

Prerequisite: SCT 100

Provides a study of databases. Topics include: advanced database management concepts, development of macros, data integration concepts, development of user interfaces, relational database concepts, troubleshooting databases. (Winter, Summer for Day Classes; Fall, Spring for Evening Classes; Winter for Online Classes)

CIS 2231 Design Methodology

Credit Hours: 6

Design Methodology teaches students how to create and mange Web sites using FrontPage, NetObjects Fusion Dynamic HTML, and various multimedia and CSS standards. Students will also implement the latest strategies to develop third generation Web site, evaluate design tools, discuss future technology standards, and explore the incompatibility issues surrounding current browsers. The course focuses on theory, design and Web construction, along with information architecture concepts, Web project management, and scenario development and performance evaluations. (Fall, Spring for Day Classes; Spring for Evening Classes)

CIS 2261 JavaScript Fundamentals

Prerequisite: CIS 105, CIS 2201

JavaScript Fundamentals teaches developers how to use the JavaScript language and how to Incorporate scripts into their web pages to make them interactive, to validate data, and add animation to the web page. JavaScript is supported by all popular browsers. Security considerations are discussed throughout the course. (Winter, Summer for Day Classes; Summer for Evening Classes)

CIS 2271 - Fundamentals of CGI using Perl

Credit Hours: 4

Credit Hours: 7

Credit Hours: 4

Prerequisite: CIS 2201

Fundamentals of CGI Programming using PERL and server-Side Scripting teach students how to use Common Gateway Interface (CGI) PERL programs and scripts on a Web server. Students will learn how to writer print-to-screen scripts, customize Web page hit counters, create and use business forms that interface with text files, manipulate data in a database, work with a relations database via Open Database Connectivity ODBC), and explore Web server security issues related to CGI. A survey of other products such as Microsoft Active Server Pages, Netscape LiveWire, and Cold Fusion by Allaire will be discussed. Security issues using server-side scripting will also be studied, and students will learn how to add security elements to their scripts. (Fall, Spring for Day Classes; Winter for Evening Classes)

CIS 2281 Database Connectivity

Prerequisite: CIS 2191

Database Connectivity teaches students how to manipulate data in a database, work with relational database via Open Database Connectivity (ODBC) and learn how to work with different database systems. Students will learn to install and configure Cold Fusion, or equivalent software, and use the system to develop forms and applications to interact with file systems, e-mail and database servers. (Fall, Spring for Day Classes; Winter for Evening Class)

C U R S E D E S C R I P T I O N S

CIS 2321 Introduction to LAN and WAN

Prerequisite: SCT 100

Credit Hours: 6

Provides students with classroom and laboratory experience in current and emerging network technology. Topics include safety, networking, network terminology and protocols, network standards, local-area networks (LANs), wide-area networks (WANs), Open System Interconnection (OSI) models, cabling, cabling tools, routers, router programming, Ethernet, Internet Protocol (IP) addressing, and network standards. Particular emphasis is given to the use of decision-making and problemsolving techniques in applying science, mathematics, communication, and social-studies concepts to solve networking problems. In addition, instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment and all local, state, and federal safety, building and environmental codes and regulations. (Spring, Fall for Day Class; Summer for Evening Class)

CIS 2322 Introduction to WANs and Routing

Prerequisite: CIS 2321

Credit Hours: 6

This course provides instruction on performing basic router configuration and troubleshooting. (Summer, Winter for Day Class; Fall for Evening Class)

CIS 2401 Java Programming for Non-Programmers

Credit Hours: 3

This course provides first-time programmers an excellent choice for learning programming using the Java programming language. This course helps students understand the significance of the Java programming language. With this knowledge, students will develop programming skills in the areas of object oriented and Java technology. By the end of class, students will be able to create simple programs using Java technology ("Java programs") and read and edit Java technology source code. (See Advisor for availability)

CIS 2411 Migrating to Object Oriented Programming with Java

Credit Hours: 5

Prerequisite: CIS 2401

Migrating to OO Programming with Java [tm] Technology provides students with the necessary concepts and skills to move to Java technology. This course teaches basic object-oriented (OO) concepts and object oriented analysis and design as they relate to Java technology, as well as introductory Java programming language constructs. (See Advisor for availability)

CIS 2421 Intermediate Java Programming

Credit Hours: 7

Prerequisite: CIS 252

Programmers familiar with object-oriented concepts will learn how to develop Java [tm] applications. This course is used to teach students the syntax of the Java programming language. The course uses the Java 2 Software Development Kit (SDK). (Fall, Spring for Day Classes)

CIS 2431 Advanced Java Programming

Credit Hours: 7

Prerequisite: CIS 2421

Advanced Java progress into advanced JAVA programming techniques and program development. Server side programming and client side programs are integrated. Students also learn debugging techniques and security. (Winter, Summer for Day Classes)

COS 100 Introduction to Cosmetology Theory

Credit Hours: 5

Introduces the fundamental theory and practices of the cosmetology profession. Emphasis will be placed on professional practices and safety. Topics include state and local laws, rules, and regulations; hygiene and grooming; personality development and professional ethics; sterilization, sanitation, and bacteriology; chemistry fundamentals, safety; anatomy and physiology; and Hazardous Duty Standards Act compliance. (Fall, Spring for Day Classes; Quarterly for Evening Classes)

COS 101 Introduction to Permanent Waving and Relaxing

Credit Hours: 2

Prerequisite/Corequisite: COS 100

Introduces the chemistry and chemical reactions of permanent wave solutions and relaxers. Topics include permanent wave techniques, safety procedures, chemical relaxer techniques, and permanent wave and chemical relaxer application procedures on mannequins. (Fall, Spring for Day Classes; Quarterly for Evening Classes)

COS 103 Introduction to Skin, Scalp, and Hair

Credit Hours: 2

Introduces the theory, procedures, and products used in the care and treatment of the skin, scalp, and hair. Topics include treatment theory, basic corrective hair and scalp treatments, plain facials, products and supplies, and diseases and disorders. (Fall, Spring for Day Classes; Quarterly for Evening Classes)

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COS 105 Introduction to Shampooing and Styling

Prerequisite: COS 100

Introduces the fundamental theory and skills required to shampoo and create shapings, pincurls, fingerwaves, roller place-

Credit Hours: 4

Credit Hours: 3

Credit Hours: 3

Credit Hours: 6

Credit Hours: 3

Credit Hours: 3

Credit Hours: 3

Credit Hours: 4

Credit Hours: 8

ment, and combouts. Laboratory training includes Styling training to total 20 hours on mannequins and 25 hours on live models without compensation. Topics include shampoo chemistry, shampoo procedures, styling principles, pincurls, roller placement, fingerwaves, combout techniques, skipwaves, ridgecurls and safety precautions. (Fall, Spring for Day Classes; Quarterly for Evening Classes)

COS 106 Introduction to Hair Cutting

Prerequisite/Corequisite: COS 100

Introduces the theory and skills necessary to apply haircutting techniques. Safe use of haircutting implements will be stressed. Topics include haircutting terminology, safety and sanitation, cuffing implements, and haircutting techniques.

(Fall, Spring for Day Classes; Quarterly for Evening Classes)

COS 108 Permanent Waving and Relaxing

Prerequisite: COS 101

Presents precautions and difficulties involved in applying permanent waves and relaxers. Application of permanent waves and relaxers on live models is included. Topics include timed permanent wave, timed relaxer application, safety precautions, and Hazardous Duty Standards Act compliance. (Winter, Summer for Day Classes; Quarterly for Evening Classes)

COS 109 Hair Color

Prerequisite: COS 102

Presents the application of temporary, semi-permanent and permanent hair coloring products. Topics include lash and brow tints, coloring products, safety precautions and tests, mixing procedures, and color selection and application. (Winter, Summer for Day Classes; Quarterly for Evening Classes)

COS 110 Skin, Scalp, and Hair

Prerequisite: COS 103

Provides instruction on and application of techniques and theory in the treatment of the skin, scalp, and hair. Emphasis will be placed on work with live models. Topics include implements, products and supplies, diseases and disorders, corrective hair and scalp treatments, facial procedures and manipulations, and safety precautions. (Winter, Summer for Day Classes; Quarterly for Evening Classes)

COS 111 Styling

Prerequisite: COS 105

Continues the theory and application of hairstyling and introduces thermal techniques. Topics include blow dry styling, thermal curling, thermal pressing, thermal waving, braiding, safety, and cleaning and styling wigs and hairpieces. (Winter, Summer for Day Classes; Quarterly for Evening Classes)

COS 112 Manicuring and Pedicuring

Prerequisite: COS 100

Provides manicuring and pedicuring experience on live models. Topics include implements, products and supplies, diseases and disorders, manicure techniques, and plain pedicure. (Winter, Summer for Day Classes; Quarterly for Evening Classes)

COS 113 Practicum I

Prerequisites: COS 107, COS 108, COS 109, COS 110, COS 111, COS 112

Prerequisites/Corequisites: ENG 111, MAT 101, PSY 100

Provides laboratory experiences necessary for the development of skill levels required to be a competent cosmetologist. The allocation of time to the various phases of cosmetology is prescribed by the Georgia State Board of Cosmetology. This course includes a portion of the hours required for licensure. Topics include permanent waving and relaxers; hair color and bleaching; skin, scalp, and hair; haircutting; styling; dispensary; manicure/pedicure; reception; safety precautions; and Hazardous Duty Standards Act compliance. (Fall, Spring for Day Classes; Quarterly for Evening Classes)

COS 114 Practicum II

Prerequisite/Corequisite: COS 113

Provides laboratory experiences necessary for the development of skill levels required to be a competent cosmetologist. The allocation of time to the various phases of cosmetology is prescribed by the Georgia State Board of Cosmetology. This course includes a portion of the hours required for licensure. Topics include permanent waving and relaxers; hair color and bleaching; skin, scalp, and hair; haircutting; styling; dispensary; manicure/pedicure; reception; safety precautions; and Hazardous Duty Standards Act compliance. (Fall, Spring for Day Classes; Quarterly for Evening Classes)

COS 115 Practicum/Internship I

Prerequisites: COS 113, COS 114

Credit Hours: 4

Provides experience necessary for professional development and completion of requirements for state licensure. Emphasis will be placed on the display of professional conduct and positive attitudes. The requirements for this course may be met in a laboratory setting or in a combination of a laboratory setting and an approved internship facility. Topics include permanent waving and relaxers; hair color and bleaching; skin, scalp, and hair haircutting; styling; dispensary; manicure/pedicure; reception; safety precautions; and Hazardous Duty Standards Act compliance. (Winter, Summer for Day Classes; Quarterly for Evening Classes)

COS 116 Practicum/Internship II

Prerequisites: COS 113, COS 114, COS 115

Credit Hours: 5

Provides experience necessary for professional development and completion of requirements for state licensure. Emphasis will be placed on the display of professional conduct and positive attitudes. The requirements for this course may be met in a laboratory setting or in a combination of a laboratory setting and an approved internship facility. Topics include permanent waving and relaxers; hair color and bleaching; skin, scalp, and hair; haircutting; styling; dispensary; manicure/pedicure; reception; safety precautions; Hazardous Duty Standards Act compliance; and state licensure preparation. (Winter, Summer for Day Classes; Quarterly for Evening Classes)

COS 117 Salon/Shop Management

Prerequisites: COS 100, Program admission

Credit Hours: 4

Emphasizes the steps involved in opening and operating a privately owned cosmetology salon. Topics include planning a salon/shop, business management, retailing, public relations, sales skills, and client retention, (Winter, Summer for Day Classes; Quarterly for Evening Classes)

COS 118 Nail Care I

Credit Hours: 7

Provides additional experience in manicuring and pedicuring techniques required of applicants for state licensure. Emphasis is placed on performance, using live models in an actual or simulated occupational setting. Topics include: manicure, nail repair, artificial nails, pedicure, and advanced and new techniques. (Quarterly for Day and Evening Classes)

COS 119 Nail Care II

Credit Hours: 6

Provides nail care experience on live models. Emphasis will be placed on the display of professional conduct and positive attitudes and the appropriate number of applications required by the state board of cosmetology in theory and service credit requirements for this course. Emphasis is placed on performance, using live models in an actual or simulated occupational setting. Topics include: manicure, dispensary, and advanced techniques. (Quarterly for Day and Evening Students)

CRJ 101 Introduction to Criminal Justice Technology

Credit Hours: 5

Prerequisite: Provisional admission

Examines the emergence, progress, and problems of the Criminal Justice system in the United States. Topics include: the American Criminal Justice system; constitutional limitations; organization of enforcement, adjudication, and corrections; and career opportunities and requirements.

CRJ 103 Corrections

Credit Hours: 5

Credit Hours: 5

Prerequisite: Provisional admission

Provides an overview of all phases of the American correctional system and practices, including its history, procedures, and objectives. Topics include: history and evolution of correctional facilities; legal and administrative problems; institutional facilities and procedures; probation, parole, and prerelease programs; alternative sentencing; rehabilitation; community involvement; and staffing.

CRJ 104 Principles of Law Enforcement

Prerequisite: Provisional admission

Examines the principles of organization and administration and the duties of local and state law enforcement agencies with emphasis on police departments. Topics include: history and philosophy of law enforcement, evaluation of administrative practices, problems in American law enforcement agencies, emerging concepts, professionalism, and community crime prevention programs.

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C 0 U R S E D E S C R I P T I 0 N S

CRJ 105 Criminal Procedure

Credit Hours: 5

Prerequisite: CRJ 101

Introduces the substantive law of major crimes against persons and property. Attention is given to observation of courtroom trials. Topics include: laws of arrest and search and seizure; procedures governing arrest, trial, and administration of criminal sanctions; rules of evidence; general court procedures; rights and duties of officers and citizens; and Supreme Court rulings that apply to Criminal Justice /overview of Constitutional Law.

CRJ 202 Constitutional Law

Credit Hours: 5

Prerequisite: CRJ 101

Emphasizes those provisions of the Bill of Rights which pertain to Criminal Justice Technology. Topics include: characteristics and powers of the three branches of government principles governing the operation of the Constitution, the Bill of Rights, and the Constitutional Amendments.

CRJ 206 Criminology

Credit Hours: 5

Prerequisite: CRJ 104

Introduces the nature extent, and factors related to criminal behavior, and the etiology of criminal offenses and offenders. Topics include: scope and varieties of crime; sociological, psychological, and biological causes of crime; criminal subculture and society's reaction; prevention of criminal behavior; behavior of criminals in penal and correctional institutions; and problems of rehabilitating the convicted criminal.

CRJ 207 Juvenile Justice

Credit Hours: 5

Prerequisite: CRJ 101

Analyzes the nature, extent, and causes of juvenile delinquency, and examines the processes in the field of juvenile justice. Topics include: survey of juvenile law, comparative analysis of adult and juvenile justice systems, and prevention and treatment of juvenile delinquency.

CRJ 209 Criminal Justice Practicum/Internship

Credit Hours: 5

Prerequisite: Completion of all required courses

Provides experiences for further professional development and exposure to related agencies in the Criminal Justice Technology field. The student will either pursue a study project directed by the instructor within the institution or an internship in a related agency supervised by the instructor. Placement is subject to the availability of an approved site. Topics include: observation and/or participation in Criminal Justice Technology activities, interpersonal skills development, community oriented policing, cultural diversity, critical thinking/problem solving, and an independent study project.

DDF 100 Introduction to CAD Operator Training

Credit Hours: 5

This course introduces fundamental concepts and operations necessary to utilize microcomputers. Emphasis is placed on basic concepts, terminology, and techniques necessary for CAD applications. (Quarterly for Day and Evening Classes)

DDF 101 Introduction to Drafting

Credit Hours: 6

Emphasizes the development of fundamental drafting techniques. Topics include terminology, drafting equipment care and use, lettering, line relationships, and geometric construction. (Quarterly for Day and Evening Classes)

DDF 102 Size and Shape Description I

Credit Hours: 5

Prerequisites/Corequisites: DDF 101, MAT 103

Provides multiview and dimensioning techniques necessary to develop views that completely describe machine parts for manufacture. Topics include multiview drawing and sketching in pencil and/or ink, precision measurement, tolerances and fits, and basic dimensioning procedures and practices. (Quarterly for Day and Evening Classes)

DDF 103 Size and Shape Description II

Credit Hours: 5

Prerequisites/Corequisites: DDF 101, DDF 102

Continues dimensioning skill development and introduces sectional views. Topics include advanced dimensioning practices and development of section views in pencil and/or ink. (Quarterly for Day and Evening Classes)

DDF 104 Pictorial Drawing

Credit Hours: 3

Prerequisites: DDF 103

Introduces the use of technical sketching and pictorial drawing. Topics include: axonometric drawings, oblique drawings, and pictorial sketching. (Fall, Spring for Day and Evening Classes)

DDF 105 Auxiliary Views

Prerequisites/Corequisites: DDF 103, MAT 104

Credit Hours: 3

Introduces techniques necessary for auxiliary view drawings. Topics include primary and secondary auxiliary views in pencil and/or ink. (Quarterly for Day and Evening Classes)

DDF 106 Fasteners

Prerequisite/Corequisite: DDF 105

Credit Hours: 3

Provides knowledge and skills necessary to draw and specify fasteners. Topics include types, representations, and specification of threads; drawing of fasteners; use of technical reference sources; and use of welding symbols. (Quarterly for Day and Evening Classes)

DDF 107 Introduction to CAD

Credit Hours: 6

Prerequisites/Corequisites: SCT 100, DDF 103, MAT 104

Introduces basic concepts, terminology, and techniques necessary for CAD applications. Topics include terminology, CAD commands, basic entities, and basic drafting applications. (Quarterly for Day and Evening Classes)

DDF 108 Intersections and Development

Prerequisites/Corequisites: DDF 103, MAT 104

Credit Hours: 5

Introduces the graphic description of objects represented by the intersection of geometric components. Topics include surface development; establishment of true length; and intersections of line, planes, prisms, pyramids, curved surfaces, and cylinders and cones. (Quarterly for Day and Evening Classes)

DDF 109 Assembly Drawings I

Prerequisites/Corequisites: DDF 104, DDF 107

Provides knowledge and skills necessary to make working drawings. Topics include technical reference source use, detail drawings, orthographic assembly drawings, and pictorial assembly drawings executed using drafting board and/or CAD equipment. (Quarterly for Day and Evening Classes)

DDF 111 Intermediate CAD

Credit Hours: 6

Credit Hours: 5

Prerequisites: DDF 107, MAT 104

Continues developing CAD utilization skills in discipline-specific applications. Topics include: intermediate CAD commands, entity management, advanced line construction, block construction and management, command reference customization, advanced entity manipulation, and system variables. (Quarterly for Day and Evening Classes)

DDF 112 3D Drawing and Modeling

Credit Hours: 6

Credit Hours: 5

Prerequisite: DDF 111

Continues developing CAD utilization skills in discipline-specific applications. Topics include: advanced CAD commands, CAD applications, macro applications, macro utilization, application utilization, 3D modeling, rendering, advanced application utilization, and pictorial drawings. (Quarterly for Day and Evening Classes)

DDS 201 Strength of Materials

Prerequisites: ENG 111, MAT 104

Provides a non-calculus based overview of the behavior of materials when subjected to different loadings and restraints and the prediction of materials behavior in different situations. Topics include stress, strain, tension, moments of inertia, and beam bending. (Winter, Summer for Day and Evening Classes)

DDS 203 Surveying I

Credit Hours: 3

Prerequisites: DDF 107, MAT 104

Introduces fundamental plane surveying concepts, instruments, and techniques. Topics include linear measurement; angles, bearings, and directions; and use of instruments such as transits, theodolites, levels, and electronic distance meters. (Quarterly for Day and Evening Classes)

DDS 205 Residential Architectural Drawing I

Credit Hours: 6

Prerequisites: DDF 111, DDS 201, ENG 111, MAT 104

Introduces architectural drawing skills necessary to produce a complete set of construction drawings given floor plan information. Topics include floor, footing, and foundation plans; interior and exterior elevations; sections and details; window, door, and finish schedules; site plans; and specifications. (Quarterly for Day and Evening Classes)

DDS 207 Mechanical Systems for Architecture

Architecture Credit Hours: 3

Credit Hours: 6

Credit Hours: 6

Credit Hours: 4

Credit Hours: 4

Credit Hours: 6

Credit Hours: 6

Credit Hours: 7

Credit Hours: 6

Prerequisite/Corequisites: DDS 205, DDS 206, PHY 221

Reinforces technical knowledge and skills required to develop accurate mechanical and electrical plans. Topics include: heating, ventilation, and air conditioning calculations and plans; electrical calculations and plans; and plumbing calculations and plans.

DDS 208 Residential Architectural Drawing II

Prerequisite/Corequisite: DDS 205

Continues in-depth architectural drawing practice and develops architectural design skills. Plans are designed to meet applicable codes. Topics include footing, foundation, and floor plans; interior and exterior elevations; sections and details; window, door, and finish schedules; site plans; specifications; and mechanical and electrical systems. (Quarterly for Day and Evening Classes)

DDS 209 Structural Steel Detailing

Prerequisite: DDF 111, DDF 112

Develops knowledge and skills required for structural steel detailing and connection design utilized for commercial construction. Topics include office practices; steel shapes; beam reactions; framed connections; seated connections; and columns, base plates, and splices. (Summer Quarter for Day Classes Only)

DDS 225 Principles of Metallurgy

Prerequisites: ENG 111, MAT 104

Introduces the fundamental physical properties of metals. Topics include materials properties and limitations, materials processing techniques, treating materials, testing materials, and micro-structural characteristics. (Quarterly for Day and Evening Classes)

DDS 226 Manufacturing Processes

Prerequisites/Corequisites: ENG 111, MAT 104

Introduces basic industrial manufacturing processes. Topics include measuring processes; gauging and inspecting processes; hot processes such as welding, forging, and forming; cold processes such as cutting, forming, and rolling; and finishing processes. (Fall, Spring for Day and Evening Classes)

DDS 227 Jig, Fixture, and Die Drawing

Prerequisites: DDF 111, DDF 112, DDS 225

Introduces detailing of jigs, fixtures, and dies to meet industrial standards given required specifications. Topics include: multi-view working drawing, tolerances, precision measurement and dimensioning practices, quality control, standard parts, and reference source utilization. (Fall, Spring Quarters for Day and Evening)

DDS 229 Gears and Cams

Prerequisites: DDS 201, DDS 226, MAT 104

Emphasizes calculation, specification development and drawing of gear and cam systems to produce desired results. Topics include reference utilization, solution for two unknowns, standard gear applications, standard cam applications, and gear ratios. (Quarterly for Day and Evening Classes)

DDS 230 Mechanisms I

Prerequisite/Corequisite: DDS 229

Emphasizes familiarization with and utilization of common linkage types. Students apply linkage concepts to specific problems. Topics include direct linkages, multi-linkages, standardized gear boxes, and fundamental robotic concepts. (Quarterly for Day and Evening Classes)

DDS 232 Mechanical Power Transmissions

Prerequisite/Corequisite: DDS 230

Provides opportunities for design utilization of multiple power transmission methodology. Topics include belts and pulleys, clutches and brakes, sprockets and chains, gear boxes, hydraulics, and pneumatics. (Quarterly for Day and Evening Classes)

Credit Hours: 5

Credit Hours: 5

Credit Hours: 3

Credit Hours: 3

Credit Hours: 3

Credit Hours: 5

Credit Hours: 5

Credit Hours: 3

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ECE 101 Introduction to Early Childhood Care and Education

Prerequisite: Provisional Admission

Introduces concepts relating the responsibilities and procedures involved in a variety of early childhood care situations. Topics include: historical perspectives, career opportunities, work ethics, functioning in a team environment, transitional activities, program management, learning environment, cultural diversity, licensure and accreditation, and professional resource file (portfolio) guidelines.

ECE 103 Human Growth and Development I

Prerequisite: Provisional Admission

Introduces the student to the physical, social, emotional, and intellectual development of the young child (0 to 5 years of age). Provides for competency development in observing, recording, and interpreting growth and development stages in the young child. Topics include: developmental characteristics, guidance techniques, and developmentally appropriate practice.

ECE 105 Health, Safety and Nutrition

Prerequisite: Provisional Admission

Introduces the theory, practices, and requirements for establishing and maintaining a safe, healthy learning environment. Topics include: CPR and first aid, children's health problems, environmental health and safety, child abuse and neglect, and nutritional needs of children.

ECE 112 Curriculum Development

Prerequisites/Corequisites: ECE 101, ECE 103

Develops knowledge and skills that will enable the student to establish a learning environment appropriate for young children. Topics include: instructional media, learning environments, curriculum approaches, development of curriculum materials, and community resources.

ECE 113 Art for Children

Prerequisite: Provisional Admission

Introduces the concepts related to creativity in art. This course combines lecture and lab experiences to introduce the many media areas used by children to express themselves. Topics include: concepts of creativity; art media, methods, and materials for creative activities; planning and preparation of art lessons; and appreciation of children's art processes and products.

ECE 114 Music and Movement

Prerequisite: Provisional Admission

Introduces the concepts related to creativity in music and movement. This course combines lecture and lab experiences to introduce the developmental influences of music and movement; their social and emotional value; and media, methods, and materials used to foster musical activity and creative movement. Topics include: spontaneous/planned music and movement, music equipment, music material, and coordination of movement and music.

ECE 115 Language Arts and Literature

Prerequisites/Corequisites: ECE 103, ENG 111 (Diploma), ENG 191 (Degree)

Develops knowledge and skills that will enable the student to plan and implement appropriate listening, speaking, pre-writing, and reading readiness activities for young children. Topics include: reading readiness, oral communication activities, writing readiness, listening comprehension, literature selection, and story presentation.

ECE 116 Math and Science

Prerequisites/Corequisites: ECE 103, MAT 101 (Diploma), MAT 191 (Degree)

Presents the process of introducing science and math concepts to young children. Includes planning and implementation of appropriate activities and development of methods and techniques of delivery. Topics include: cognitive development in math and science, math and science activity planning, and development of math and science materials.

ECE 121 Early Childhood Care and Education Practicum I

Prerequisite: Departmental Approval

Provides the student with a supervised opportunity to gain experience in the actual lab job setting. Practicum training topics include: good work habits, supervised planning, interaction with children and parents, application of guidance techniques, and classroom management.

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ECE 122 Early Childhood Care and Education Practicum II

Credit Hours: 3

Prerequisite: Departmental Approval

Provides the student with a supervised opportunity to gain additional experience in the actual lab job setting. Practicum training topics include: good work habits, application of guidance techniques, interaction with children and parents, program planning, and classroom management.

ECE 124 Early Childhood Care and Education Internship

Credit Hours: 12

Prerequisite: Departmental Approval

Provides the student with the opportunity to gain experience in a simulated or actual work setting. Students will be placed in an approved setting(s) throughout the quarter where planning, implementing, observing, and evaluating activities are the focus of their involvement. An evaluation procedure will be used by the designee of the institution and the on-site supervisor to critique the student's performance on the job. Topics include: problem solving, use of proper interpersonal skills, application of developmental appropriate practices, professional development, and resource file (portfolio) assessment.

ECE 201 Exceptionalities

Credit Hours: 5

Prerequisite: ECE 103

Provides for the development of knowledge and skills that will enable the student to understand individuals with special needs and appropriately guide their development. Special emphasis is placed on acquainting the student with programs and community resources that serve families with special needs persons. Topics include: inclusion/least restrictive environment (LRE), physical disabilities and health disorders, intellectual exceptionalities, and social/emotional disorders.

ECE 202 Social Issues and Family Involvement

Credit Hours: 5

Prerequisite: Program Admission

Enables the student to become familiar with the social problems that affect families of today and to develop a plan for coping with these problems as they occur in the occupational environment. Students are introduced to local programs and agencies that offer services to those in need. Topics include: professional responsibilities, family issues, and community resources.

ECE 203 Human Growth and Development II

Credit Hours: 5

Prerequisite: Provisional Admission

Introduces the student to the physical, social, emotional, and intellectual development of the school age child (6 to 12 years of age). Provides learning experiences related to the principles of human growth, development and maturation, and theories of learning and behavior. Topics include: developmental characteristics, guidance techniques, and developmentally appropriate practice.

ECE 211 Methods and Materials

Credit Hours: 5

Prerequisite: ECE 123

Develops skills to enable the student to work as a paraprofessional in a program for pre-kindergarten through elementary aged children. Topics include: instructional techniques, curriculum, and materials for instruction.

ECE 212 Professional Practices

Credit Hours: 5

Prerequisite: ECE 211

Develops knowledge that will enable the student to become acquainted with the factors involved in a good program for prekindergarten through elementary aged children. Topics include: professional qualifications, and professionalism.

ECE 217 Program Administration

Credit Hours: 5

Prerequisite: Program Admission

Provides training in planning, implementation, and maintenance of an effective early childhood organization. Topics include: organization, mission, philosophy, goals, and history of a program; types of programs; laws, rules, regulations, and accreditation; needs assessments; administrative roles and board of directors; marketing, public and community relations, grouping, and enrolling and retention; working with parents; and professionalism and work ethics.

ECE 221 Facility Management

Credit Hours: 5

Prerequisite: ECE 123

Provides training in early childhood facilities management. Topics include: money management/cost containment, space management, and program and equipment supply management.

ECE 222 Personnel Management

Prerequisite: Program Admission

Credit Hours: 5

Provides personnel management training in early childhood settings. Topics include: communication; management strategies; personnel planning; personnel policies; managing payroll/cost containment; recruitment, selection, hiring and firing, and staff retention; staff scheduling; staff development; guidance and supervision; conflict resolution; and staff evaluations.

ECO 191 Principles of Economics

Corequisite/Prerequisite: ENG 191

Credit Hours: 5

Provides a description and analysis of economic operations in contemporary society. Emphasis is placed on developing an understanding of economic concepts and policies as they apply to everyday life. Topics include basic economic principles; economic forces and indicators; capital and labor; price, competition, and monopoly; money and banking; government expenditures, federal and local; fluctuations in production, employment, and income; and the United States economy in perspective. (Fall, Spring for Day Classes; Winter and Summer for Evening Classes)

ELC 104 Soldering Technology

Credit Hours: 2

Credit Hours: 4

Credit Hours: 4

Credit Hours: 4

Credit Hours: 7

Credit Hours: 4

Credit Hours: 7

Credit Hours: 4

Develops the ability to solder and desolder connectors, components, and printed circuit boards using industry standards. Topics include safety practices, soldering, desoldering, anti-static grounding, and surface mount techniques. (Summer, Winter for Day Classes; Winter for Evening Classes)

ELC 108 Direct Current Circuits II

Prerequisite/Corequisite: IFC 101

Continues direct current (DC) concepts and applications. Topics include complex series/parallel circuits and DC theorems. (Fall, Spring for Day Classes; Fall for Evening Classes)

ELC 110 Alternating Current II

Prerequisite/Corequisite: IFC 102

Continues development of AC concepts with emphasis on constructing, verifying, and trouble-shooting reactive circuits using RLC theory and oscilloscopes. Topics include simple RLC circuits, AC circuit resonance, passive filters, transformer theory and applications, and non-sinusoidal wave forms. (Winter, Summer for Day Classes; Winter for Evening Classes)

ELC 115 Solid State Devices II

Prerequisite/Corequisite: IFC 103

Continues the exploration of the physical characteristics and applications of solid state devices. Topics include bipolar junction theory and bipolar junction applications. (Summer, Winter for Day Classes; Spring for Evening Classes)

ELC 117 Linear Integrated Circuits

Prerequisite/Corequisite: ELC 125

Provides in-depth instruction on the characteristics and applications of linear integrated circuits. Topics include operational amplifiers, timers, and three-terminal voltage regulators. (Winter, Summer for Day Classes; Fall for Evening Classes)

ELC 118 Digital Electronics I

Prerequisite/Corequisite: ELC 108

Introduces the basic building blocks of digital circuits. Topics include binary arithmetic, logic gates and truth tables, Boolean algebra and minimization concepts, logic families, and digital test equipment. (Fall, Spring for Day Classes; Winter for Evening Classes)

ELC 119 Digital Electronics II

Prerequisite/Corequisite: ELC 118

Uses the concepts developed in Digital Electronics I as a foundation for the study of more advanced devices and circuits. Topics include flip-flops, counters, multiplexers and demultiplaxers, encoding and decoding, display drivers, and analog to digital and digital to analog conversions. (Winter, Summer for Day Classes; Spring for Evening Classes)

ELC 120 Microprocessors I

Prerequisite/Corequisite: ELC 119

Introduces the fundamentals of current microprocessors. The course focuses on current generation microprocessors. Topics include microprocessor architecture, instruction set, addressing schemes, debugging, and memory devices. (Spring, Fall for Day Classes; Spring for Evening Classes)

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ELC 121 Microprocessors II

Prerequisite/Corequisite: ELC 120

Credit Hours: 4

Credit Hours: 4

Credit Hours: 4

Credit Hours: 4

Credit Hours: 3

Credit Hours: 3

Credit Hours: 3

Credit Hours: 2

Credit Hours: 3

Credit Hours: 7

Continues in-depth study of current microprocessors. Emphasis is placed on application and operation of current generation microprocessors. Topics include instruction set, assembler, addressing schemes, debugging, and memory devices. (Fall, Spring for Day Classes Only)

ELC 122 Microprocessor Interfacing

Prerequisite/Corequisite: ELC 121

Develops skills in using fundamental microprocessor interfacing with memory and programmable interface adapters. Topics include interfacing, memory circuits, input/output, programmable peripheral interfaces, and use of diagnostic programs. (Fall, Spring for Day Classes Only)

ELC 125 Solid State Devices III

Prerequisite/Corequisite: ELC 115

Continues the exploration of the physical characteristics and applications of solid state devices. Topics include field effect transistors, power control and switching devices, and display devices. (Winter, Summer for Day Classes; Fall for Evening Classes)

ELC 201 Computer Peripherals

Prerequisite/Corequisite: ELC 121

Provides a study of the computer system level architecture and functional operation of computer peripherals. Topics include software and hardware interfacing techniques, display terminals, printers, mass storage, and console devices. (Spring, Fall for Day Classes Only)

ELC 202 Networking

Prerequisite/Corequisite: ELC 121

Introduces the study of architecture and functional operation of computer networks. Emphasizes communicating technical information to non-technical people. Topics include: protocols, terminology, and component and operating principles of networks.

ELC 203 Operating Systems Concepts

Prerequisite/Corequisite: SCT 100

Provides a study of interrelationships of hardware and software at the system level and the functional operation and utilization of the operating system. Topics include: use of operating system components, system installation and generation, utilities and commands, file structure and management, multi-user operating system theory, and software applications.

ELC 204 High-Level Languages

Prerequisite/Corequisite: ELC 119

Introduces computer programming using a high-level language such as BASIC, Pascal, FORTRAN, "C," or others. Topics include flowcharting and problem analysis while developing programming skills, solution design and coding, program execution, and debugging procedures. (Winter, Summer for Day Classes Only)

ELC 205 Data Communications

Prerequisite/Corequisite: ELC 119

Introduces the fundamentals, terminology, protocols, and applications of data communications. Topics include principles of operation, functions, internal circuitry, and troubleshooting techniques of both synchronous and asynchronous interfaces and modems. (Fall, Spring for Day Classes Only)

ELC 208 Computer System Troubleshooting

Prerequisite/Corequisite: ELC 121

Emphasizes the use of diagnostics to isolate failures, replace the defective module or sub-system, and verify proper operation. Topics include operating systems use, diagnostic programs, preventive maintenance, subsystem isolation, system preparation and verification, and service reports completion. (Winter, Summer for Day Classes Only)

ELC 211 Process Control

Prerequisite/Corequisite: ELC 125

Introduces industrial process control applications with an emphasis on sensors and signal conditioning. Topics include symbology and drawing standards, control techniques, sensors and signal conditioning, and ISA and other relevant standards. (Summer, Winter for Day Classes Only)

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ELC 212 Motor Controls

Prerequisite/Corequisite: ELC 125

Credit Hours: 7

Credit Hours: 6

Credit Hours: 3

Credit Hours: 3

Credit Hours: 3

Credit Hours: 4

Credit Hours: 2

Introduces the application of motor controls in the industrial environment. Topics include AC/DC motors, AD/DC drives, MCC and contactors, NEC and NEMA standards, ladder diagrams, and power sources. (Winter, Summer for Day Classes Only)

ELC 213 Programmable Controllers

Prerequisite/Corequisite: ELC 212

Provides the basic skills and techniques used in industrial application of programmable controls. Topics include controller hardware, programming, PC applications, and troubleshooting. (Winter, Summer for Day Classes Only)

ELC 214 Mechanical Devices

Prerequisite/Corequisite: MAT 193 or MAT 104

Develops knowledge and skills necessary to transmit mechanical power using common industrial linkage types. Emphasis is placed on use of mechanical devices in combination with electronic controls. Topics include: linkages, motion analysis, gear drives, and preventative maintenance.

ELC 215 Fluid Power

Prerequisites/Corequisites: MAT 193 or MAT 104

Provides an overview of fluid power operation as applied to industrial electronics. Emphasis is placed on the interfacing of electronic and fluidic systems. Topics include: safety, fluid dynamics, hydraulics, pneumatics, air logic, and electrical interfacing.

ELC 216 Robotics

Prerequisites/Corequisites: ELC 213 and ELC 214

Explores robotic concepts, terminology, and basic applications. Emphasis is placed on programming in robotic languages and robot/human interfacing safety practices. Topics include: safety, terminology, language, and programming.

ELT 113 Programmable Logic Control I

Prerequisites/Corequisites: ELT 111, ELT 112, ELT 118

Introduces operational theory, systems terminology, field wiring/installation, and start-up procedures for programmable logic controls. Emphasis will be placed on PLC programming, connections, installations, and start-up procedures. Topics include introductory programming, PLC functions and terminology, processor unit and power supply, introductory numbering system, relay/programming logic, and field wiring/installation and start-up. (Winter Summer, Alternating Years for Day Classes Only)

ELT 114 Programmable Logic Control II

Prerequisite/Corequisite: ELT 113

Provides for development of operational skills in the use of PLC equipment and peripheral devices. Emphasis is placed on printers and other peripheral devices, PLC hard wiring, program writing, installation procedures, and operation of PLC program. Topics include program control information/data manipulation, report generation (output), peripheral devices, field wiring/installation, start-up, troubleshooting, and program enhancement/optimization. (Winter, Summer, Alternating Years for Day Classes Only)

EMP 100 Interpersonal Relations and Professional Development

Credit Hours: 3

Prerequisite: Program Ready Status in Writing Skills

Provides a study of human relations and professional development in today's rapidly changing world that prepares students for living and working in a complex society. Topics include human relations skills, job acquisition skills, job retention skills, job advancement skills, and professional image skills. (Quarterly for Day and Evening Classes)

EMS 120 Emergency Medical Technology I-Basic

Introduces the student to the Emergency Medical Technician profession. This course covers the first half of the U.S. Department of Transportation Basic EMT Program. Topics include: introduction to emergency care, EMS systems, wellbeing of the EMT, medical-legal aspects of mergency care, hazardous materials, blood and airborne pathogens infectious diseases, ambulance operations and emergency vehicle operations, the human body, patient assessment, communications and documentation, lifting and moving patients, gaining access, airway, basic life support-CPR and automatic external defibrillation. (Winter for Evening Classes Only)

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EMS 121 Emergency Medical Technology II-Basic

Credit Hours: 7

Prerequisites: EMS 120

Introduces the student to the Emergency Medical Technician profession. This course covers the second half of the U.S. Department of Transportation Basic EMT Program. Topics include: general pharmacology, resspiratory emergencies, cardiology, diabetes, altered mental status, seizures, allergies, poisonings, environmental emergencies, behavioral emergencies, bleeding and shock, PASG, soft tissue injuries, musculoskeletal injuries, head and spinal injuries, OB/GYN, infants and children, and special needs patients. (Spring for Evening Classes Only)

EMS 122 Emergency Medical Technology-Intermediate

Credit Hours: 9

Prerequisites: EMS 121

This course covers the U.S. Department of Transportation 1985 Emergency Medical Technician-Intermediate Curriculum. The EMT-I course is designed to provide additional training and increased knowledge and skills in specific aspects of advanced life support. This course is for individuals who have successfully completed the EMT-Basic course as a prerequisite. Topics include: roles and responsibilities, EMS systems, medical legal, communications, documentation, medical terminology, body systems, patient assessment, advanced airway, shock, trauma, shock management, IV administration, intraosseous infusion, medical emergencies I, medical emergencies II, diabetes emergencies and dextrose 50% administration, patient handling, and extrication. (Summer for Evening Classes Only)

ENG 095 Developmental English I

Institutional Credit Hours: 5

Prerequisite: placement by diagnostic testing

Introduces basic grammar. Topics include basic vocabulary, simple sentences, sentence capitalization, end punctuation marks, and spelling. (Quarterly for Day and Evening Classes)

ENG 096 Developmental English II

Institutional Credit Hours: 5

Prerequisites: ENG 095 or placement by diagnostic testing

Emphasizes standard English usage. Topics include capitalization, subjects and predicates, punctuation, sentence structure, correct verb tenses, standard spelling, and basic paragraph development. (Quarterly for Day and Evening Classes)

ENG 097 Developmental English III

Institutional Credit Hours: 5

Prerequisite: ENG 096 or placement by diagnostic testing

Emphasizes the rules of grammar, punctuation, and spelling in order to ensure a smooth transition into communicating orally and in writing. Topics include basic grammar review, use of punctuation, use of capitalization, recognition of clauses and phrases, spelling, writing sentences, and writing simple paragraphs. (Quarterly for Day and Evening Classes)

ENG 098 Developmental English IV

Institutional Credit Hours: 5

Prerequisite: ENG 097 or placement by diagnostic testing

Emphasizes the ability to communicate using written and oral methods. Topics include basic paragraph construction, proof-reading, the essay format, written reports, oral reports, and review of grammar and usage. (Quarterly for Day and Evening Classes)

ENG 101 English

Credit Hours: 5

Prerequisite: ENG 097, or entrance English score in accordance with approved DTAE admission score levels; and, RDG 097, or entrance reading score in accordance with approved DTAE admission score levels

Emphasizes the development and improvement of written and oral comunication abilities. Topics include: analysis of writing techniques used in selected readings, writing practice, editing and proofreading, research skills, and oral presentation skills. Homework assignments reinforce classroom learning.

ENG 111 Business English

Credit Hours: 5

Prerequisites: ENG 097 and RDG 097 or Program Ready Status in Writing and Reading Skills

Emphasizes a functional and comprehensive review of English usage. Topics include English grammar, sentence structure, and composition fundamentals. The course includes an introduction to library resources and the research process. Minimum grade of "C" is required to advance to ENG 112, Business Communications. (Quarterly for Day and Evening; Fall, Spring for Internet Classes)

ENG 112 Business Communications

Credit Hours: 5

Prerequisites: Keyboarding proficiency, ENG 111 with a Grade of "C" or better

Provides knowledge and application of written and oral communications found in business situations. Topics include writing fundamentals and speaking fundamentals. (Winter, Summer for Day Classes; Fall, Spring for Evening Classes; Winter, Summer for Internet Classes.)

ENG 191 Composition and Rhetoric I

Credit Hours: 5

Prerequisites: ENG 098 and RDG 098 or program ready status in writing and reading skills

Explores the analysis of literature and articles about issues in the humanities and in society. Students practice various modes of writing ranging from exposition to argumentation and persuasion. The course includes a review of standard grammatical and stylistic usage in proofreading and editing. The course includes an introduction to library sources, foundations of research, and writing the research paper. Topics include writing analysis and practice, revision, and research. An introduction to literary fiction is also included. Minimum grade of "C" is required to advance to ENG 193, ENG 195, HUM 191, or SPC 191. (Quarterly for Day and Evening Classes; Fall, Winter, Spring for Internet Classes)

ENG 193 Composition and Rhetoric II

Prerequisite: ENG 191 with a "C" or better

Credit Hours: 5

Emphasizes the student's ability to read literature analytically and meaningfully and to communicate clearly. Students analyze the form and content of literature and practice various modes of writing. Topics include reading and analysis of fiction, poetry, and drama; research; and writing about literature. (Campus classes offered on demand; Fall, Spring for Internet Classes)

ENG 195 Technical Communications

Prerequisite: ENG 191 with a "C" or better

Credit Hours: 5

Emphasizes practical knowledge of technical communications techniques, procedures, and reporting formats used in industry and business. Topics include research, device and process description, formal technical report writing, business correspondence, and oral technical report presentation. (Offered on Demand)

HUM 191 Introduction to Humanities

Credit Hours: 5

Explores the philosophic and artistic heritage of humanity expressed through a historical perspective on visual arts, music, drama, and literature. The humanities are presented as a source of subjective insights for the understanding of people and society. The course emphasizes the connection of science and technology to culture and the arts. Topics include historical and cultural developments and contributions of the humanities. (Fall, Winter, and Spring for Day Classes; Winter and Summer for Evening Classes; Fall, Winter and Spring for Internet Classes)

IFC 100 Industrial Safety Procedures

Credit Hours: 2

Provides an in-depth study of the health and safety practices required for maintenance of industrial, commercial, and home electrically operated equipment. Topics include: introduction to OSHA regulations; safety tools, equipment, and procedures; and first aid and cardiopulmonary resuscitation.

IFC 101 Direct Current Circuits I

Credit Hours: 4

Introduces direct current (DC) concepts and applications. Topics include: fundamental electrical principles and laws; batteries; direct current test equipment; series, parallel, and simple combination circuits; and basic laboratory procedures and safety practices.

IFC 102 Alternating Current I

Prerequisites/Corequisites: ELC 108, MAT 104

Credit Hours: 4

Introduces the theory and application of varying sine wave voltages and current. Topics include AC wave generation, oscilloscope operation, inductance, and capacitance. (Winter, Summer for Day Classes; Winter for Evening Classes)

IFC 103 Solid State Devices I

Credit Hours: 4

Prerequisite/Corequisite: ELC 110 Introduces the physical characteristics and applications of solid state devices. Topics include PN diodes, power supplies, voltage regulation, and special applications. (Fall, Spring for Day Classes; Spring for Evening Classes)

IMT 118 DC and AC Motors

Credit Hours: 4

Prerequisites/Corequisites: IFC 101, IFC 102, MAT 104

Introduces the fundamental theories and applications of single phase and three-phase motors. Topics include motor theory and operating principles, motor terminology, motor identification, NEMA standards, AC motors, DC motors (series, shunt, and compound), scheduled preventive maintenance, troubleshooting and failure analysis, and Article 430 of the National Electrical Code. (Winter, Summer, Alternating Years)

IMT 119 Fundamentals of Motor Controls

Prerequisite/Corequisite: IMT 118

Credit Hours: 4

Introduces the fundamental concepts, principles, and control devices involved in industrial motor control. Emphasis is placed on developing a theoretical foundation of industrial motor control devices. Topics include principles of motor control, control devices, symbols and schematic diagrams, and Article 430 N.E.C. (Fall, Spring, Alternating Years)

IMT 120 Magnetic Starters and Braking

Credit Hours: 4

Prerequisite/Corequisite: IMT 119

Provides instruction in wiring motor control circuits. Emphasis is placed on designing and installing magnetic starters in across-the-line, reversing, jogging circuits, and motor braking. Topics include control transformers, full voltage starters, reversing circuits, jogging circuits, and braking. (Fall, Spring, Alternating Years)

IMT 121 Two-Wire Control Circuits

Credit Hours: 3

Prerequisite/Corequisite: IMT 120

Provides instruction in two-wire motor control circuits using relays, contactors, and motor starters with application sensing devices. Topics include wiring limit switches, wiring pressure switches, wiring float switches, wiring temperature switches, wiring proximity switches, and wiring photo switches. (Fall, Spring, Alternating Years)

IMT 122 Advanced Motor Controls

Credit Hours: 3

Prerequisite/Corequisite: IMT 121

Continues instruction in the study and application of motor control circuits with emphasis on sequencing circuits, complex circuits, and motor control centers. Topics include sequencing circuits, reduced voltage starting, motor control centers, and troubleshooting. (Winter, Summer, Alternating Years)

IMT 123 Variable Speed Motor Control

Credit Hours: 4

Prerequisite/Corequisite: IMT 122

Provides instruction in the fundamentals of variable speed drives, industrial motors, and other applications of variable speed drives. Topics include fundamentals of variable speed control, AC and DC motors, solid state controls, installation procedures, and ranges. (Fall, Spring, Alternating Years)

IMT 126 Programmable Logic Control Practicum

Credit Hours: 4

Prerequisite/Corequisite: ELT 113

Provides for hands-on development of operational skills in the maintenance and troubleshooting of automated industrial machinery. Emphasis is placed on applying skills developed in previous courses in programmable logic control (PLC) in an industrial setting. Topics include hard-wiring PLC equipment, writing and executing programs, and troubleshooting PLC circuits. (Fall, Spring, Alternating Years)

IMT 127 Industrial Maintenance Internship

Credit Hours: 4

Prerequisite: All non-elective courses required for program completion

Provides students with occupation-based instruction that applies learned skills to actual work experience. Emphasizes students' opportunities to practice programmable logic control skills and troubleshooting techniques on industrial equipment. Topics include application of industrial maintenance skills, appropriate employability skills, problem solving, adaptability to job equipment and technology, progressive productivity, and acceptable job performance. (Winter, Summer, Alternating Years)

IMT 129 Industrial Wiring I

Credit Hours: 5

Prerequisites/Corequisites: IFC 101, IFC 102

Provides instruction in the fundamental concepts of industrial wiring with an emphasis on NEC requirements. Topics include wiring devices and materials; symbols and blueprint reading; branch and feeder circuits; switches, receptacles, and cord connectors; grounding; wire sizing; over current protection; and NEC requirements. (Fall, Spring, Alternating Years)

IMT 130 Industrial Wiring II

Prerequisite/Corequisite: IMT 129

Credit Hours: 5

Continues instruction in the study of industrial wiring. Topics include raceway installation, three phase systems, transformers (single phase and three phase), industrial lighting systems, and NEC requirements. (Winter, Summer, Alternating Years)

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IMT 132 Industrial Maintenance (Electrical) Review

Prerequisites: All required Industrial Maintenance (Electrical) courses

Provides an instructional review of the Industrial Maintenance (Electrical) course of study with a comprehensive assessment of each area. The assessment will consist of a written, identification, and hands-on examination. Topics include math, alternating current, direct current, motor controls, safety, programmable logic controllers, AC-DC motors, and industrial wiring. (Winter, Summer, Alternating Years)

IMT 152 National Electric Code

Prerequisites: ELC 108, IFC 102, ELC 110

Provides students with an in depth review of the National Electric Code (NEC) as applied to electrical equipment installation in the industrial plant setting. Emphasis is placed on understanding the format and organization of content presented in Chapters I through IV of the NEC. Topics include: presentation format of the NEC; code definitions and requirements; wiring and protection; wiring methods and materials; and equipment installation and maintenance. (Annually for day and evening classes)

MAS 101 Legal Aspects of the Medical Office

Credit Hours: 2

Credit Hours: 5

Credit Hours: 3

Credit Hours: 4

Introduces the basic concept of medical assisting and its relationship to the other health fields. Emphasizes medical ethics, legal aspects of medicine, and the medical assistant's role as an agent of the physician. Provides the student with knowledge of medical jurisprudence and the essentials of professional behavior. Topics include introduction to medical assisting, introduction to medical law, the physician-patient-assistant relationship, the medical office in litigation, and ethics. (Summer for Day Classes Only)

MAS 103 Pharmacology

Prerequisites: AHS 101, MAT 101

Introduces drug therapy with emphasis on safety, classification of drugs, their action, side effects, and/or adverse reactions. Also introduces the basic concept of mathematics used in the administration of drugs. Topics include introduction to pharmacology, sources and forms of drugs, drug classification, commonly prescribed medications according to body systems, effects of drugs on the body systems, systems of measurement, and calculating adult and pediatric dosages. (Summer for Day Classes Only)

MAS 106 Medical Office Procedures

Credit Hours: 4

Prerequisites: Program Admission; BUS 101, AHS 101, MAT 101

Emphasizes essential skills required for the typical medical office. Topics include: medical office protocol, time management, appointment making, telephone techniques, medical office equipment, mail services, medical references, medical filing, correspondence, and travel and meeting arrangements. (Summer Quarter for Day Classes)

MAS 108 Medical Assisting Skills I

Credit Hours: 5

Credit Hours: 5

Credit Hours: 5

Prerequisites: AHS 101, AHS 109, BUS 101, MAS 101, MAS 103

Introduces the skills necessary for assisting the physician with a complete history and physical in all types of practices. The course includes skills necessary for sterilizing instruments and equipment and setting up sterile trays. The student also explores the theory and practice of electrocardiography. Topics include infection control, prepare patients/assist physician with examinations and diagnostic procedures, vital signs/mensuration, minor office surgical procedures, and electrocardiograms. (Fall for Day Classes Only)

MAS 109 Medical Assisting Skills II

Prerequisites: MAS 103, MAS 108

Furthers the student's knowledge of the more complex activities in a physician's office. Topics include collection/examination of specimens; venipuncture; urinalysis; administration of medication including oral, topical, subcutaneous, intramuscular, and intradermal medication; first aid and CPR; physical therapy procedures; and principles of radiology and safety. (Winter for Day Classes Only)

MAS 112 Human Diseases

Prerequisites: AHS 101, BUS 212, MAS 103

Provides clear, succinct, and basic information about common medical conditions. Taking each body system, the disease condition is highlighted following a logical formation consisting of description, etiology, signs and symptoms, diagnostic procedures, treatment, prognosis, and prevention. Topics include introduction to disease and diseases of body systems including the nutritional and pharmacological implications. (Fall for Day Classes; Winter, Summer for Internet Classes)

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MAS 113 Maternal and Child Care

Credit Hours: 5

Prerequisites: AHS 101, BUS 212, MAS 103, MAS 112

Focuses on the reproductive system, care of the mother in all stages of pregnancy, the normal and emotional growth of the healthy child, and care of the sick child. Topics include introduction to obstetrics, female and male reproductive systems, intrauterine development, prenatal care, labor and delivery, and stages of child development/newborn through adolescence. (Winter for Day Classes Only)

MAS 114 Medical Administrative Procedures I

Credit Hours: 3

Prerequisites: MAS 101, BUS 101

Emphasizes essential skills required for the typical medical office in the areas of computerized applications in medical transcription. Topics include: computerized applications to medical transcription, application of computer skills, and medical terminology. (Winter for Day Classes Only)

MAS 115 Medical Administrative Procedures II

Credit Hours: 3

Prerequisites: MAS 103, MAS 114, BUS 101

Emphasizes essential skills required for the typical medical office. Topics include: Accounting Procedures, Insurance Preparation and Coding. (Fall for Day Classes Only)

MAS 117 Medical Assisting Externship

Credit Hours: 6/8

Prerequisite: permission of instructor

Provides students with an opportunity for in-depth application and reinforcement of principles and techniques in a medical office job setting. This clinical practicum allows the student to become involved in a work situation at a professional level of technical application and requires concentration, practice, and follow through. Topics include application of classroom knowledge and skills, functioning in the work environment, and listening and following directions. (Spring for Day Classes Only)

MAS 118 Medical Assisting Seminar

Credit Hours: 4

Prerequisite: permission of instructor

Seminar focuses on job preparation and maintenance skills and review for the certification examination. Topics include letters of application, resumes, job interviews, letters of resignation, and review for the certification examination. (Spring for Day Classes Only)

MAS 151 ICD-9 Coding I

Credit Hours: 3

Prerequisites: AHS 101, AHS 109, or BUS 212, ENG 101, BUS 101, MAS 112, MAS 153

ICD-9 Coding I focuses on the purpose, use, and arrangement of ICD-9 CM coding. Topics include symbols, punctuation, abbreviations, basic coding principles, and accurate diagnosis and procedure codes. Disease and complication for the systems are also included. (Fall, Spring for Internet Classes)

MAS 152 ICD-9 Coding II

Credit Hours: 3

Prerequisites: AHS 101, AHS 109, or BUS 212, ENG 101, BUS 101, MAS 112, MAS 151, MAS 153

This course focuses on the ICD-9 CM coding for symptoms, signs and ill defined conditions. Coding II also focuses on V codes, E codes, procedural coding, DRG's and Hospital based outpatient services. The body systems covered in this course are respiratory, integumentary, endocrine, and genitourinary. Immunity and neoplasms are also covered. (Fall, Spring for Internet Classes)

MAS 153 CPT-4 Coding

Credit Hours: 2

Prerequisites: AHS 101, AHS 109 or BUS 212, ENG 101, BUS 101, MAS 112

This course focuses on the background, development and purpose for CPT coding. Topics include symbols, punctuations, differences in the coding systems (CPT and ICD-9-CM), and guidelines for coding. (Winter, Summer for Internet Classes)

MAT 095 Developmental Mathematics I

Institutional Credit Hours: 5

Prerequisite: Placement by diagnostic testing

Introduces elementary arithmetic needed for advancement to the level of basic mathematics. Topics include place value, reading and writing numbers, addition facts, subtraction facts, multiplication facts, division facts, and simple word problems. (Quarterly for Day and Evening Classes)

MAT 096 Developmental Mathematics II

Prerequisites: MAT 095 or placement by diagnostic testing

Teaches the student basic arithmetic skills needed for the study of mathematics related to specific occupational programs. Topics include number theory, whole numbers, fractions, decimals, measurement, and word problems. Homework assign-

ments reinforce classroom learning. (Quarterly for Day and Evening Classes)

MAT 097 Developmental Mathematics III

Prerequisite: MAT 096 or placement by diagnostic testing

Institutional Credit Hours: 5

Institutional Credit Hours: 5

Institutional Credit Hours: 5

Institutional Credit Hours: 5

Emphasizes in-depth arithmetic skills needed for the study of mathematics related to specific occupational programs and for the study of basic algebra. Topics include number theory, fractions, decimals, ratio/proportion, percent, measurement/geometric formulas, and word problems. Homework assignments reinforce classroom learning. (Quarterly for Day and Evening Classes)

NOTE. Use of the electronic calculator is an integral part of all math classes above MAT 097.

MAT 098 Developmental Pre-Algebra

Prerequisite: MAT 097 or placement by diagnostic testing

Introduces prealgebra concepts and operations which will be applied to the study of beginning algebra. Topics include number theory, arithmetic review, signed numbers, algebraic operations, and introduction to algebra word problems. Homework assignments reinforce classroom learning. (Quarterly for Day and Evening Classes)

MAT 099 Developmental Algebra

Prerequisite: MAT 098 or placement by diagnostic testing

Introduces concepts and operations which can be applied to the study of algebra. Course content emphasizes use of variables, manipulation of algebraic expressions, solution of linear and quadratic functions, and solution of systems of linear equations. Class includes lecture, applications, and homework to reinforce learning. (Quarterly for Day and Evening Classes)

MAT 101 General Mathematics

Prerequisite: MAT 097 or Program Ready Status in Numerical Skills

Emphasizes mathematical skills that can be applied to the solution of occupational and technical problems. Topics include properties of numbers, fractions, decimals, percents, ratio and proportion, measurement and conversion, exponents and radicals, and geometric and technical formulas. Class includes lectures, applications, and homework to reinforce learning. (Quarterly for Day and Evening Classes)

MAT 103 Algebraic Concepts

Credit Hours: 5

Prerequisites: MAT 098 or program ready status in numerical and elementary algebra skills Introduces concepts and operations which can be applied to the study of algebra. Course content emphasizes basic mathematical concepts, basic algebraic concepts, and intermediate algebraic concepts. Class includes lecture, applications, and homework to reinforce learning. Minimum grade of "C" required to advance to MAT 104, MAT 191, MAT 196, or MAT 198. (Quarterly for Day and Evening Classes)

MAT 104 Geometry and Trigonometry

Prerequisite: MAT 103 with a grade of "C" or better

Introduces and develops basic geometric and trigonometric concepts. Course content emphasizes measurement using English and metric systems, angle measure, similar triangles, right triangles, two and three-dimensional geometric formulas. right triangle trigonometry, oblique triangles, and laws of sines and cosines. (Spring for Day Classes; Spring, Alternating Years for Evening Classes)

MAT 105 Trigonometry

Prerequisite: MAT 103 with a grade of C or better

Emphasizes trigonometric concepts. Introduces logarithms and exponential functions. Topics include: geometric formulas, trigonometric concepts, and logarithms and exponentials.

MAT 111 Business Mathematics

Prerequisites: MAT 097 or program ready status in numerical skills Emphasizes basic mathematical concepts found in business situations. Topics include basic mathematical skills, mathematical skills in business-related problem solving, mathematical information for documents, graphs, and mathematical problems using electronic calculators. (Quarterly for Day and Evening Classes)

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MAT 190 Introduction to Mathematical Modeling

Credit Hours: 5

Prerequisites: MAT 099 and required Posttest score or MAT 103 with a grade of "C" or better and required Posttest score or program ready status in Numerical and Intermediate Algebra Skills

This course is an alternative to College Algebra for those students who will not take Trigonometry, Pre-Calculus, or Calculus. It is an applications-driven course that introduces functions using real-world phenomena as models. The major topics include: fundamental concepts of algebra; linear, quadratic, polynomial, exponential, and logarithmic functions and models of real-world phenomena; systems of equations; and additional topics in algebra. (Quarterly)

MAT 191 College Algebra

Credit Hours: 5

Prerequisites: MAT 099 and required Posttest score or MAT 103 with a grade of "C" or better and required Posttest score or program ready status in Numerical and Intermediate Algebra Skills

This course emphasizes techniques of problem solving using algebraic concepts and graphing calculators. The major topics include: fundamental concepts of algebra; techniques of solving equations and inequalities; the study of functions and their graphs; systems of equations; sequences, series, and probability; and analytic geometry. (Quarterly)

MAT 194 Precalculus

Credit Hours: 5

Prerequisites: MAT 099 and required Posttest score or MAT 103 with a grade of "C" or better and required Posttest score or program ready status in Numerical and Intermediate Algebra Skills

This course prepares students for Calculus. The topics discussed include an intensive study of polynomial, rational, exponential, logarithmic, trigonometric functions and their graphs, and extensive use of the graphing calculator. Applications include simple maximum and minimum problems, exponential growth and decay. (Spring for Day Classes; Winter for Evening Classes)

MAT 198 Introduction to Statistics

Credit Hours: 5

Prerequisites: MAT 099 and required Posttest score or MAT 103 with a grade of "C" or better and required Posttest score or program ready status in Numerical and Intermediate Algebra Skills

Discusses the concepts and methods fundamental to utilizing and interpreting commonly used statistics including extensive use of the graphing calculator. Topics include descriptive statistics, basic probability, discrete and continuous distributions, linear regression, and chi square test. (Offered on demand)

MCA 201 Advanced Milling I

Credit Hours 7

Prerequisite: MCH 115, MCH 116

Provides instruction in advanced techniques of milling machine operations. Emphasis is placed on skill development through laboratory practice. Topics include vertical milling, horizontal milling, compound angles, and gear cutting. (Fall Quarter for Day)

MCA 203 Advanced Milling II

Credit Hours 6

Prerequisite: MCA 201

Provides instruction in advanced techniques of milling machine operations. Topics include indexing, rotary tables, boring, facing, and turning and straddle milling. (Fall Quarter for Day)

MCA 205 Advanced Lathe Operations I

Credit Hours: 7

Prerequisites: MCH 109, MCH 110

Provides instruction in advanced lathe operations and procedures. Emphasis is placed on skill development through laboratory experiences. Topics include thread cutting, precision boring, precision knurling, and tapers. (Winter Quarter for Day)

MCA 207 Advanced Lathe Operations II

Credit Hours: 6

Prerequisite: MCA 205

Provides instruction in advanced lathe operations and procedures. Emphasis is placed on skill development through laboratory experiences. Topics include eccentric turning, special setups, and tolerance turning. (Winter Quarter for Day)

MCA 208 Advanced Grinding I

Credit Hours: 4

Prerequisite: MCH 112

Provides instruction in advanced grinding operations and procedures. Emphasis is placed on skill development through laboratory experiences. Topics include surface grinding, cylindrical grinding, tool and cutter grinding, and grinding theory. (Spring Quarter for Day)

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MCA 209 Advanced Grinding II

Prerequisite: MCA 208

Credit Hours: 3

Provides instruction in advanced grinding techniques and procedures. Emphasis is placed on skill development through laboratory experiences. Topics include grinding theory, abrasives, wheel preparation, and form grinding. (Spring Quarter for Day)

MCA 211 CNC Fundamentals

Prerequisite: MCH 118

Credit Hours: 7

Credit Hours: 7

Credit Hours: 7

Credit Hours: 6

Credit Hours: 6

Credit Hours: 6

Provides a comprehensive introduction to computer numerical controller (CNC) machining processes. Topics include math review, safety, jigs and fixtures, tooling and tool holders, reference points, tool offset, and program loading and editing. (Quarterly for Day Classes Only)

MCA 213 CNC Mill Manual Programming

Prerequisite: MCA 211

Provides instruction for the safe operation and manual programming of computer numerical controlled (CNC) milling machines. Topics include machine safety, command codes, program loading, machine setup, process control, and practical application. (Quarterly for Day Classes Only)

MCA 215 CNC Lathe Manual Programming

Prerequisite: MCA 211

Provides instruction for the safe operation and manual programming of computer numerical controlled (CNC) lathes. Topics include machine safety, command codes, program loading, machine setup, process control, and practical application. (Quarterly for Day Classes Only)

MCA 217 CNC Practical Applications

Prerequisites: MCA 211, MCA 213, MCA 215

Provides instruction in specialty tooling and multi-axis machining. Students will also gain experience in process control. Topics include specialty tooling, EDM/ECM, multi-axis machining, process control, and laboratory practice. (Quarterly for Day Classes Only)

MCA 219 CAD/CAM Programming

Prerequisite: MCA211

Emphasizes the development of skills in computer aided design (CAD) and computer aided manufacturing (CAM). The student will design the program parts to be machined on computer numerical controlled machines. Topics include hardware and software, digrizer, penplofter, drawing manipulations, tool path generation, and program uploading and downloading. (Quarterly for Day Classes Only)

MCH 101 Introduction to Machine Tool

Prerequisite: Provisional Admission

Introduces the fundamental concepts and procedures necessary for the safe and efficient use of basic machine tools. Topics include use of hand and bench tools, use of power tools, analysis of measurements, saw and blade selection, feed and speed determination, use of coolant, saws and blade maintenance, saw operations, drill setup and operations, ISO 9000, Deming's quality theory, quality goals and objectives, and coordinate measurement machines. (Quarterly for Day; Fall, Winter, Spring for Evening Classes)

MCH 102 Blueprint Reading for Machine Tool I

Credit Hours: 5

Credit Hours: 5

Introduces the fundamental concepts and techniques necessary to interpret drawings and produce sketches for machine tool applications. Topics include interpretation of blueprints and sketching. (Quarterly for Day and Evening Classes)

MCH 104 Machine Tool Math I

Prerequisite/Corequisite: MAT 101

Develops mathematic competencies as applied to machine tool technology. This course emphasizes manipulation and use of machining formulas and the discussion of machining geometry. Topics include machining algebra and machining geometry. (Quarterly for Day and Evening Classes)

MCH 105 Machine Tool Math II

Prerequisite: MCH 104

Continues the development of mathematics competencies as applied to machine tool technology. Emphasis is placed on the uses of geometric and trigonometric principles in machining. Topics include advanced applied geometry and applied trigonometry. (Quarterly for Day and Evening Classes)

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MCH 107 Characteristics of Metal/Heat Treatment I

Credit Hours: 4

Credit Hours: 7

Prerequisite: Provisional admission

Introduces the properties of various metals, production methods, and identification of ferrous and non-ferrous metals.

Topics include metallurgy and heat treatment. (Quarterly for Day and Evening Classes)

MCH 109 Lathe Operations I

Prerequisite: Provisional admission

Provides opportunities for students to develop skills in the use of bench grinders and lathes. Topics include lathes, bench grinders, bench grinder operations, lathe calculations, lathe setup, and lathe operations. (Quarterly for Day; Fall, Winter, and Spring for Evening Classes)

MCH 110 Lathe Operations II

Credit Hours: 6

Prerequisite: MCH 109

Provides further instruction for students to develop skill in the use of lathes. Topics include lathes, lathe setup and operations. (Quarterly for Day; Fall, Winter, and Spring for Evening Classes)

MCH 112 Surface Grinder Operations

Credit Hours: 6

Provides instruction in the setup, operations, maintenance, and assembly operations of surface grinders. Topics include surface grinder, maintenance, surface grinder setup, surface grinder operations, and assembly operations. (Quarterly for Day; Fall, Winter, and Spring for Evening Classes)

MCH 114 Blueprint Reading II

Credit Hours: 5

Prerequisite/Corequisite: MCH 102, MCH 104

Continues the development of blueprint reading competencies as applied to Machine Tool Technology. Topics include geometric dimensioning and geometric tolerance, advanced sectioning and assembly drawings. (Quarterly for Day and Evening Classes)

MCH 115 Mill Operations I

Credit Hours: 7

Provides instruction in the setup and use of the milling machine. Topics include milling machines, milling machine calculations, milling machine setup, and milling machine operation. (Quarterly for Day; Fall, Winter, and Spring for Evening Classes)

MCH 116 Mill Operations II

Credit Hours: 6

Prerequisite: MCH 115

Provides further instruction for students to develop skills in the use of milling machines. Topics include vertical and horizontal mill calculations, vertical and horizontal mill setup, and vertical and horizontal mill operations. (Quarterly for Day; Fall, Winter, and Spring for Evening Classes)

MCH 118 Computer/CNC Literacy

Credit Hours: 5

Prerequisite: Provisional Admission

Provides an introduction to the terminology and application of microcomputers and terminology associated with computer numerical controlled (CNC) equipment. Students will become familiar with the basic operations of computers and the capabilities and limitations of CNC machinery. Topics include introduction to microcomputer concepts, basic microcomputer operations, functions and subroutines, machine tool applications, Cartesian coordinates, absolute and incremental programming, and capabilities and limitations of CNC. (Quarterly for Day and Evening Classes)

MCH 152 Industrial Machine Applications

Credit Hours: 6

Prerequisites: MCH 110, MCH 112, MCH 116

Provides students an opportunity to perform creative and critical thinking skills needed to fabricate, modify, and maintain complex machine assemblies. Emphasis is placed on benchwork; lathe, mill, and grinder operations; tool selection; and sequencing fabrication operations. Topics include job planning, preparation for machining operations, and machining operations. (Quarterly for Day; Fall, Winter, and Spring for Evening Classes)

MKT 101 Principles of Management

Credit Hours: 5

Develops skills and behaviors necessary for successful supervision of people and job responsibilities. Emphasis will be placed on personnel management, the basic supervisory functions, supervisory skills and techniques, and special challenges and demands of supervising employees. Topics include management theories; employee morale; motivating, supervising, and evaluating employees; recruitment, screening, and selection of employees; supervision techniques; and functions of management. (Fall for Day Classes; Fall for Evening Classes)

MKT 103 Business Law

Credit Hours: 5

Credit Hours: 5

Introduces the study of contracts and other business obligations and the legal environment. Topics include creation and evolution of laws, court decision process, sales contracts, commercial papers, risk-bearing devices, and the Uniform Commercial Code. (Fall, Spring for Day and Evening Classes)

MKT 105 Accounting for Marketing Applications

Prerequisite: MAT 111

Develops an awareness of the financial aspects of business. Topics include forecasting and budgeting, stock records, costs of overtime and job improvements, basic accounting principles (bookkeeping, ledger, and journal), basic accounting cycle, financial statements such as balance sheets and income statements, and financial ratios. (Winter for Day and Evening Classes)

MKT 161 Service Industry Business Environment

Credit Hours: 2

Introduces the student to the service industry. Topics include an introduction to the service industry business environment, an introduction to lifelong learning, work ethics and positive behaviors required for exceptional customer service, an introduction to customer relations, working together successfully on teams, and basic business principles. (Scheduled by Request)

MKT 162 Customer Contact Skills

Credit Hours: 6

Provides students with skills necessary to communicate with customers and successfully manage that relationship in both telephone and face-to-face situations. Topics include skills to effectively communicate with customers, developing rapport with customers, problem-solving in customer service, telephone skills, sales skills in the service environment, managing the difficult customer, and managing the multicultural customer. Computer based training is used to allow students to practice skills using simulated business situations. (Scheduled by Request)

MKT 163 Computer Skills for Customer Service

Credit Hours: 3

Provides students with the fundamentals of computer skills in a customer service environment. Topics include introduction to computer technology, introduction to the Windows environment, introduction to word processing, introduction to spreadsheets, introduction to databases, introduction to E-mail, and credit card processing. (Scheduled by Request)

MKT 164 Business Skills for the Customer Service Environment

Credit Hours: 3

Provides students with the fundamentals of basic business skills in the customer service environment. Topics include introduction to business correspondence, basic business calculations, change management, managing multiple tasks and priorities, and tools for team problem-solving and service improvement. (Scheduled by Request)

MKT 165 Personal Effectiveness In Customer Service

Credit Hours: 1

Provides students with skills that will allow them to present a positive image to both co-workers and customers. Topics include personal wellness and stress management, positive image, and job interview skills. (Scheduled by Request)

MSD 101 Interpersonal Employee Relations

Provides a general knowledge of the human relations aspects of the senior-subordinate workplace environment. Topics include: employee relation principles, problem solving and decision making, leadership techniques to develop employee morale, human values and attitudes, organizational communications, interpersonal communications, and employee conflict. (Winter for Day and Evening Classes)

MSD 102 Legal Environment for Supervisors

Credit Hours: 5

Develops a working knowledge of the legal environment of business necessary for supervisors. Topics include: the legal system and public policy making, administrative law and business contracts, individual accountability and liability, debtorcreditor relationships, interpreting and understanding federal protective laws relating to consumers and competition, the Uniform Commercial Code, Title VII of the Civil Rights Acts, OSHA (Occupational Safety and Health Administration) regulations, and employee protective laws. (Fall, Spring for Day and Evening Classes)

MSD 103 Leadership and Decision Making

Credit Hours: 5

Familiarizes the student with the principles and methods of sound leadership and decision making. Topics include: basic leadership principles and how to use them to solicit cooperation, use of leadership to develop the best possible senior-subordinate relationships, the various decision-making processes, the ability to make sound and timely decisions, leadership within the framework of the major functions of management, and delegation of authority and responsibility. (Fall for Day and Evening Classes)

MSD 104 Personnel Administration for Supervisors

Credit Hours: 5

Acquaints the student with the authority, responsibility, functions, and problems of the personnel administrator. Topics include: the relationship between the personnel administrator and the line manager; analysis and development of job descriptions; interview of prospective employees; diagnosis of organizational health from the personnel perspective; laws and guidelines which dictate personnel actions; the basic concepts, guidelines, and responsibilities for training employees; and employability skills. (Winter for Day and Evening Classes)

MSD 106 Counseling and Disciplinary Actions

Credit Hours: 5

Develops an understanding of the proper counseling and disciplinary techniques to use in various workplace situations. Topics include: the approaches to counseling and when each technique is appropriate; the use of good interpersonal communications to make counseling more effective; how to recognize when counseling is needed; and handling disciplinary problems in a fair and impartial manner, counseling for discipline, common causes of disciplinary problems, and positive discipline. (Spring for Day Classes and Evening Classes)

MSD 107 Training and Performance Evaluation

Credit Hours: 5

Shows the student how to recognize when training is needed and how to properly use the performance evaluation system. Topics include: training principles; training techniques for maximum effectiveness; the supervisor's responsibilities for training; steps in training; the importance and impact of performance evaluation and use of the performance evaluation as a management tool; and fairness and equity in preparing the performance evaluation. (Spring for Day Evening Classes)

MSD 108 Management and Supervisory Seminar

Credit Hours: 5

Prerequisite: MSD 103

Encourages students to discuss their perception of management practices which have been studied during the Management/Supervisory Development program. Topics include: current issues and problems in management and supervision and state of the art management and supervision techniques. Guest speakers will contribute to the seminar. (Summer for Day and Evening Classes)

MSD 110 Management and Supervision O.B.I. I

Credit Hours: 3

Introduces students to the application and reinforcement of management, supervision, and employability principles in an actual job placement or through a practicum experience. Students are acquainted with occupational responsibilities through realistic work situations and are provided with insights into management and supervisory applications on the job. Topics include problem solving, adaptability to the job setting, use of proper interpersonal skills, application of management and supervisory techniques, and professional development. The occupation-based instruction is implemented through the use of a practicum or internship and all of the following: written individualized training plans, written performance evaluation, and a required weekly seminar. (Quarterly for Day and Evening Classes)

MSD 113 Ethical Management

Credit Hours: 5

Provides students with an overview of ethical management practices with emphasis on the axiology of contemporary managerial ethics. Topics include: the roots of ethics, traditional and contemporary definitions of good, personal values, moral development, ethics in the workplace, the ethical orientation of organizations, ethics and society, managerial ethics and the rule of law, managerial ethics and normative philosophy, managerial ethics and individual decision making, and managerial ethics and organizational design. (Summer for Day and Evening Classes)

MSD 151 Personal Development for Supervisors

Credit Hours: 5

This course familiarizes the student with those factors that influence management, which are in addition to those covered in management program courses. Topics include: ethical management, individual behavior, group behavior, employee protective laws, and techniques of public speaking. (Summer for Day and Evening Classes)

MSD 154 Organizational Communication and Information Technology Credit Hours: 5

This course focuses on communication, supervisions, and organizations in the age of technology. It builds on the basic computer skills introduced in SCT 100 using computer-based technology to develop skills in applying information technology. The student will create written, verbal, and electronic communication applied to supervisory functions in the workplace. Topics include word processing applications, spreadsheet applications, database applications, presentation technology and applications, graphical interface applications, interpersonal communications, group communications and team building, organizational communications, and global, intercultural, and ethical issues in communication. (Summer for Day and Evening Classes)

MSD 156 Supervision in a Service Environment

Credit Hours: 5

This course focuses on supervision in the service sector with special emphasis on team building, quality management, and developing a customer focus. The challenge of providing world-class customer service is addressed through sections on principles of service industry supervision, career development, problem solving, stress management, and conflict resolution. Topics include: principles of service industry supervision, team building, customer service operations, TQM in a service environment, business software applications, communication in the service sector, introduction to information systems, selling principles and sales management, retail management, and legal issues in the service sector.

MSD 175 Business Spanish

Introduces the vocabulary, sentence structure, and conversational skills needed to communicate in Spanish with co-workers in a business setting. Topics include the following: parts of speech, vocabulary, sentence structure, and common phrases in the workplace. (Quarterly)

NPT 112 Medical Surgical Nursing Practicum I

Credit Hours: 7

Prerequisites: AHS 102, AHS 103, AHS 150, NSG 110; Corequisite: NSG 112

Practicum focuses on wellness and the prevention of illness, care of the individual as a whole, and deviations from the normal state of health. Topics include oncology; cardiovascular, respiratory, endocrine, urinary, and gastrointestinal systems and associated illness; pharmacology; nursing procedures/techniques; and utilizing the nursing process. (Winter, Summer for Day Classes; 1/2 Spring, 1/2 Summer for Evening Classes on Alternating Years)

NPT 113 Medical Surgical Nursing Practicum II

Credit Hours: 7

Prerequisites: AHS 102, AHS 103, , AHS 104, AHS 150, NSG 110, NSG 112, NPT 112; Corequisite: NSG 113

Practicum focuses on wellness and the prevention of illness, care of the individual as a whole, and deviations from the normal state of health. Topics include musculoskeletal, neurological, oncology, fluids, electrolytes, integumentary, and sensory systems; mental health and associated illness; pharmacology and nursing procedures/techniques; and utilizing the nursing process. (Fall, Spring for Day Classes; Winter for Evening Classes on Alternating Years)

NPT 212 Pediatric Nursing Practicum

Prerequisites: AHS 102, AHS 103, AHS 150, NSG 110, NSG 112, NSG 113, NPT 112, NPT 113; Corequisites: NSG 212, NPT 213, NSG 213

Focuses on health management and maintenance and the prevention of illness, care of the individual as a whole, and deviations from the normal state of health. The definition of client care includes using the nursing process, performing assessments, using critical thinking, and providing client education. Topics include: health management and maintenance and prevention of illness, care of the individual as a whole, and deviations from the normal state of health in the pediatric client; client care, treatments, pharmacology, and diet therapy of the pediatric client; growth and development; and standard precautions. (Winter and Summer Quarters for Day Classes; Spring Quarter on Alternating Years)

NPT 213 Obstetrical Nursing Practicum

Credit Hours: 3

Prerequisites: AHS 102, AHS 103, AHS 150, NSG 110, NSG 112, NSG 113, NPT 112, NPT 113; Corequisites: NSG 212, NPT 212, NSG 213

Focuses on health management and maintenance and the prevention of illness, care of the individual as a whole, and deviations from the normal state of health. The definition of client care includes using the nursing process, performing assessments, using critical thinking, and providing client education. Topics include: health management and maintenance and prevention of illness, care of the individual as a whole, and deviations from the normal state of health in the reproductive system, obstetric clients, and the newborn; client care, treatments, pharmacology, and diet therapy related to the reproductive system, obstetric clients, and the newborn; and standard precautions. (Winter and Summer Quarters for Day Classes; Fall Quarter on Alternating Years)

NPT 215 Nursing Leadership Practicum

Credit Hours: 2

Prerequisites: AHS 102, AHS 104, NPT 112, NPT 113, NSG 112, NSG 113, NSG 110, AHS 103; Corequisites: NSG 215 Builds on the concepts presented in NPT 112, NPT 113, NSG 110, NSG 112, and NSG 113 and develops the skills necessary for successful performance in the job market. Topics include leadership skills, management skills, and employability skills. (Winter, Summer for Day Classes; Spring for Evening Classes on Alternating Years)

NSG 110 Nursing Fundamentals

Credit Hours: 10

Prerequisites: AHS 101, AHS 103, AHS 104, AHS 150, BUS 212, ENG 111, MAT 101, PSY 191, SCT 100; Corequisite: AHS

Introduces the nursing process. Topics include orientation to the professions, ethics and law, community health, client care which is defined as using the nursing process, using critical thinking, and providing client education and includes principles and skills of nursing practice, documentation, and an introduction to physical assessment, geriatrics, customer/client relationships, and standard precautions. (Fall, Spring for Day Classes; Winter for Evening Classes on Alternating Years)

NSG 112 Medical Surgical Nursing I

Credit Hours: 9

Prerequisites: AHS 102, AHS 103, AHS 150, NSG 110; Corequisites: NPT 112

Focuses on wellness and the prevention of illness, care of the individual as a whole, and deviations from the normal state of health. Topics include cardiovascular, respiratory, endocrine, urinary, and gastrointestinal systems and associated illness; pharmacology; nursing procedures/techniques; and utilizing the nursing process. (Winter, Summer for Day Classes; Spring for Evening Classes on Alternating Years)

NSG 113 Medical Surgical Nursing II

Credit Hours: 9

Prerequisites: AHS 102, AHS 103, NPT 112, NSG 110, NSG 112; Corequisite: NPT 113

Focuses on wellness and the prevention of illness, care of the individual as a whole, and deviations from the normal state of health. Topics include musculoskeletal, neurological, oncology, fluids, electrolytes, integumentary, and sensory systems; mental health and associated illness; pharmacology; nursing procedures/techniques; and utilizing the nursing process. (Fall, Spring for Day Classes; Summer for Evening Classes on Odd Years)

NSG 212 Pediatric Nursing

Credit Hours: 5

Prerequisites: AHS 102, AHS 103, NSG 110, NSG 112, NSG 113, NPT 112, NPT 113; Corequisites: NPT 212, NPT 213, NSG 213

Focuses on health management and maintenance and the prevention of illness, care of the individual as a whole, and deviations from the normal state of health. The definition of client care includes using the nursing process, performing assessments, using critical thinking, and providing client education. Topics include: health management and maintenance and prevention of illness, care of the individual as a whole, and deviations from the normal state of health in the pediatric client; client care, treatments, pharmacology, and diet therapy of the pediatric client; growth and development; and standard precautions. (Offered Winter and Summer Quarters for Day Classes; Fall Quarter on Alternating Years)

NSG 213 Obstetrical Nursing

Credit Hours: 5

Prerequisites: AHS 102, AHS 103, NSG 110, NSG 112, NSG 113, NPT 112, NPT 113; Corequisites: NSG 212, NPT 212, NPT 213

Focuses on health management and maintenance and the prevention of illness, care of the individual as a whole, and deviations from the normal state of health. The definition of client care includes using the nursing process, performing assessments, using critical thinking, and providing client education. Topics include: health management and maintenance and prevention of illness, care of the individual as a whole, and deviations from the normal state of health in the reproductive system, obstetric clients, and the newborn; client care, treatments, pharmacology, and diet therapy related to the reproductive system, obstetric clients, and the newborn; and standard precautions. (Offered Winter and Summer Quarters for Day Classes; Fall Quarter on Odd Years)

NSG 215 Nursing Leadership

Credit Hours: 2

Prerequisites: NPT 112, NPT 113, NSG 112, NSG 113, NSG 110, AHS 102, AHS 103; Corequisites: NPT 215 Builds on the concepts presented in Nursing Fundamentals (NSG 110) and Medical/Surgical Nursing I and II (NSG 112, NSG 113) and develops the skills necessary for successful performance in the job market. Topics include leadership skills, management skills, and employability skills. (Winter, Summer for Day Classes; Spring for Evening Classes on Alternating Years)

NUR 191 Fundamentals of Nursing

Credit Hours: 6

Prerequisite: Admission to the Associate Degree Nursing Program; Corequisite: Psychology 191

Through classroom, laboratory, and clinical experiences, this foundation nursing course introduces the student to Orem's Conceptual Framework and its integration into the nursing curriculum. Content is presented using Orem's Conceptual Framework as a basis for identifying Therapeutic Self-Care Demands associated with physical assessment, hygiene, physical comfort, mobility, safety, protection and prevention, medical asepsis, nutrition and elimination, and psychosocial demands of culturally diverse patients. The lecture and laboratory component of this course introduces the student to the nursing process with an emphasis on psychomotor and psychosocial skills. Foundations of nursing, critical thinking skills, effective communication skills, principles and styles of the teaching-learning process, and attributes reflective of a caring and compassionate technical nurse are introduced in NUR 191 and incorporated throughout the curriculum. Concepts and methods of assisting the patient through the performance of skilled nursing care will be introduced in the class and laboratory setting and transitioned to the clinical setting. In preparation for the clinical experience, the student will be introduced to the process of integrating Orem's Self-Care Framework with theoretical content of NUR 191 into the application of therapeutic interventions and technologies in providing direct care for those patients with self-care demands in selected acute and long term care settings. In the clinical area, the student focuses on the direct care of one assigned patient with an identified self-care demand related to NUR 191 theoretical content. (Offered annually for Fall Day Classes)

NUR 192 Dosage Calculations

Credit Hours: 2

Prerequisites/Corequisites: Admission to the Associate Degree Nursing Program, MAT 190/191/193

Using classroom and laboratory experiences, this course introduces the student application of basic mathematical concepts for medication calculations and techniques for the administration of medications. Topics include: dosage calculation, systems of measurements, conversion within and between systems, medication orders, equipment and administration records, simple dosage calculations, advanced dosage calculations, and heparin administration and intravenous calculations. (Offered annually to Fall Day Classes)

NUR 193 Lifespan Nursing I

Credit Hours: 8

Prerequisite: Admission to the Associate Degree Nursing Program, NUR 191, NUR 192, BIO 193, PSY 191

Coreguisite: BIO 194, PSY 291

Using classroom, laboratory, and clinical experiences, this is the first in a three-quarter sequence of nursing courses. Theoretical content of NUR 193 focuses on the comprehensive and technically skilled care of the individual experiencing operative and medical Therapeutic Self-Care Demands on the cardiac, musculoskeletal, respiratory and gastrointestinal/biliary system. The clinical component addresses the care of one patient and will progress to the care of two patients within acute, long term, ambulatory, and/or community healthcare settings related to the theoretical content of NUR 193. Students will continue in the development and performance of teaching-learning strategies, critical thinking abilities, and effective communication skills with culturally diverse individuals of all ages through the use of the nursing process. Attributes reflective of a caring and compassionate technically skilled nurse will be emphasized. (Offered annually for Winter Day Classes)

NUR 194 Lifespan Nursing Care II

Credit Hours: 8

Prerequisite: NUR 193, PSY 291, BIO 194 Corequisite: BIO 197, MAT 190/191/198

Using classroom, laboratory, and clinical experiences, this is the second in a three-quarter sequence of nursing courses focusing on the comprehensive and technically skilled care of the individual experiencing Therapeutic Self-Care Demands of the renal/urinary, hematological, integumentary, and endocrine system. Along with these complex systems concepts, the effects of chronic illness and coping strategies are introduced. Two patients with selected Therapeutic Self-Care Demands related to the theoretical content of NUR 194 are chosen for application of therapeutic interventions and technologies through the use of the nursing process. Attributes reflective of a caring and compassionate technically skilled nurse will be demonstrated through care of culturally diverse individuals of all ages. Students will apply previously learned skills and will continue to develop those skills essential for critical thinking, effective communication, and teaching/learning strategies through the development of a comprehensive written nursing care plan, the use of clinical pathways, and case study analysis in theoretical content and clinical post-conferences. Acute ambulatory and community learning experiences are utilized for clinical experiences. The clinical experiences enable the development of skills in the application of the nursing process using Orem's Self-Care Framework to provide care for individuals experiencing shortened hospital stays and managed care restrictions. (Offered annually for Spring Day Classes)

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NUR 291 Nursing Care of the Childbearing Family

Pre-requisite: NUR 194, BIO 197, MAT 190/191/198

Co-requisite: ENG 191, SCT 100

This course provides the student with exposure to family and reproductive health concepts from simple to complex Therapeutic Self-Care Demands. The student integrates Orem's Self-Care Framework into the nursing process in the application of technologies and skilled therapeutic nursing interventions related to the care and communication of culturally diverse individuals and families experiencing self-care demands related to the theoretical content of NUR 291. Nursing management of persons with perinatal and gynecologic self-care demands are explored. The student will also explore contemporary social and ethical issues surrounding reproduction.

NUR 292 Nursing to Promote Mental Health

Credit Hours: 8

Credit Hours: 10

Credit Hours: 8

Pre-requisite: NUR 291

Co-requisite: SPC 191, HUM 191

This course enables the student to design nursing systems to care for individuals experiencing Therapeutic Self-Care Demands related to mental health in a variety of health care settings and to develop an understanding of the nurse's role in collaborative care. In addition to the introduction of major psychological, sociological, and physiological theories of mental health demands related to nursing, the importance and relevance of self-evaluation and awareness of one's own attitudes, values, and beliefs regarding psychological health and wellness are reinforced. Focus is on the application of technologies and skilled therapeutic nursing interventions related to the care and communication of culturally diverse individuals of all ages experiencing behavioral ad psychosocial self-care demands, including alcohol and substance abuse, homelessness, and illness resulting from domestic violence.

NUR 293 Life Span Nursing Care III

Pre-requisite: NUR 292, SPC 191, HUM 191

Co-requisite: NUR 294

This course focuses on culturally diverse individuals of all ages experiencing neurological, hepatic, and immunological Therapeutic Self-Care Demands. This course not only develops the student's ability to plan and deliver increasingly complex technologically skilled nursing care for the critically ill and terminal patient. This course also fosters self-confidence of the student nurse as the comprehensive application of learned therapeutic interventions and technologies acquired throughout the nursing program are utilized. Clinical experience in an acute care setting allows students to develop leadership skills and provide appropriate nursing care based on the integration of Orem's Self-Care Framework into the nursing process for one or more selected patients. In the latter part of the clinical experience, students are assigned to an acute care setting of their interest with an assigned selected preceptor as a mentor.

NUR 294 Nursing Seminar

Pre-requisite: NUR 292, SPC 191, HUM 191

Co-requisite: NUR 292

This is a non-clinical course, designed to heighten awareness of the utilization of Orem's Self-Care Framework as it relates to the nursing process. This course will facilitate role transition from nursing student to beginning registered nurse generalist. Focus is placed on case management, leadership skills, and professional development. The responsibility of the nurse to the community, the nursing profession, transition into practice, role of nursing research, professional nursing organizations, and employment principles and practice are included. Included in this course is a content review in preparation for NCLEX-RN.

OTA 101 Introduction to Occupational Therapy

Credit Hours: 3

Credit Hours: 5

Credit Hours: 4

Prerequisite: Program admission

This course explains the philosophy and history of occupational therapy and its relationship to other health care providers. Topics include foundations, history, and philosophical base of the profession and its personnel; role of OTA within health care team; role of OTA within various practice sites; definition of OT, introduction of AOTA code of ethics and standards of practice; introduction to OT theories, models of practice, and frames of reference; introduction to the OT process; and role delineation. (Fall for Day Classes Only)

OTA 102 Growth and Development

Prerequisites: BUS 212, OTA 101

Introduces the range of responses and reactions to human growth and the activities to enhance body functions. Topics include normal growth and development patterns across lifespan and occupational therapy principles which emphasize the use of purposeful activities and occupations to promote health and prevent disease. (Winter for Day Classes Only)

OTA 103 Developmental Tasks

Prerequisite: OTA 101

Credit Hours: 3

Studies human tasks and activities across the developmental life span. Through learning and teaching occupations, students will utilize therapeutic self, group and dyadic interaction to analyze, grade and adapt purposeful activities and occupations to foster occupational performance within each stage of life. Topics include: uniform terminology, performance and teaching of life tasks and activities; activity analysis; multicultural purposeful activities and occupations across the life span; and grading and adapting purposeful activities while implementing safety precautions. (Winter for Day Classes Only)

OTA 104 Conditions in Occupational Therapy

Prerequisites: BIO 193, BIO 194, BUS 212

Credit Hours: 5

Credit Hours: 6

Overview of the etiology, clinical course, prognosis, and prevention of disease processes and traumatic injuries. Includes problems associated with individuals and family who have difficulty with social cultural expectations. Emphasis is on the effect of such condition on occupational performance and ways to promote health. (Fall for Day Classes Only)

OTA 105 Analysis of Human Movement

Prerequisites: BIO 194, BUS 212; Corequisite: OTA 101

Introduces the phenomenon of human motion within the context of occupational performance. Topics include introduction to movement principles of gravity and basic biomechanics and their effect on movement, survey of skeletal system, articular system, muscular system, and nervous system, and instruction in goniometric measurements and muscle testing utilizing safety procedures within the framework of OT (Winter for Day Classes Only)

OTA 201 Psychosocial Dysfunction

Prerequisite: PSY 201; Corequisite: OTA 202

Credit Hours: 7

Credit Hours: 3

This course studies occupational therapy to service recipients for the prevention or remediation of psychosocial dysfunction or maintenance of mental health. Introduces the psychiatric disorders in different stages of human life. Encompasses OT concepts and principles in psychosocial dysfunctions which emphasize purposeful activity and role function. Topics include: psychosocial conditions commonly referred to occupational therapy; screening, evaluation, and standardized procedures for psychosocial OT; participation in the development of the OT intervention plan; collaboration with OTR on intervention implementation, reevaluation and intervention termination; psychosocial dysfunction intervention documentation procedure, and utilization of safety procedures during OT process. (Spring for Day Classes Only)

OTA 202 Psychosocial Dysfunction Treatment Methods

Prerequisite: PSY 201; Corequisite: OTA 201

Focuses on intervention of the psychiatric disorders occurring in different stages of human life through practical methods. Topics include: assistance with data collection and documentation which includes administration of standardized and nonstandardized tests and assessment tools appropriate to the role of OTA in the practice area of psychosocial dysfunction; contribution to the formation of the OT goals and objectives on evaluation; use of self, dyadic, and group interaction; and provision of the therapeutic intervention related to occupational performance areas in psychosocial dysfunction. (Spring for Day Classes Only)

OTA 204 Pediatric Issues

Prerequisites: All OTA Level 100 Courses

Covers childhood to early adulthood occupational therapy related issues, including developmental disabilities. Topics include participation in the screening, evaluation, intervention planning, therapeutic intervention, and discharge follow-up with the pediatric population within the context of occupational performance in order to promote health and prevent disease. Emphasizes the importance of patient, family/significant other/caregiver education and documentation to ensure reimbursement in today's healthcare environment. (Spring for Day Classes Only)

OTA 206 Physical Dysfunction

Credit Hours: 7

Credit Hours: 5

Prerequisites: All OTA Level 100 Courses; Corequisite: OTA 207

Studies occupational therapy to service recipients for the prevention or remediation of physical dysfunction or maintenance of quality of life. Introduces physical dysfunction in different stages of human life. Encompasses OT concepts and principles in physical dysfunctions which emphasize purposeful activity and role function. Topics include: physical conditions commonly referred to occupational therapy; screening, evaluation, and standardized procedures for physical dysfunction intervention; participation in the development of the OT intervention plan; collaboration with OTR on intervention, implementation, reevaluation and intervention termination; and physical dysfunction intervention documentation procedure. Utilization of safety procedures during OT process. (Summer for Day Classes Only)

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OTA 207 Pediatric Dysfunction Treatment Methods

Prerequisites: All OTA Level 100 Courses; Corequisite: OTA 206

Credit Hours: 3

Focuses on OT intervention and evaluation principles through practical applications. Topics include assistance with data collection and documentation which includes administration of standardized and non-standardized tests and assessment tools appropriate to the role of OTA in the practice area of physical dysfunction, contribution to the formation of the OT goals and objectives on evaluation; use of self, dyadic, and group interaction; and provision of the therapeutic intervention related to occupational performance areas in physical dysfunction. (Summer for Day Classes Only)

OTA 209 Geriatric Issues

Credit Hours: 5

Prerequisites: All OTA Level 100 Courses

Covers occupational therapy related geriatric issues. Topics include participation in the screening, evaluation, intervention planning, therapeutic intervention, and discharge/follow-up with the geriatric population within the context of occupational performance in order to promote health and prevent disease. Emphasizes the importance of patient, family/significant other/caregiver education and documentation to ensure reimbursement in today's healthcare environment. (Summer for Day Classes Only)

OTA 212 Occupational Therapy Trends & Issues

Credit Hours: 3

Prerequisites: All OTA Level 100 Courses, OTA 201, OTA 202, OTA 206, OTA 207

Teaches the roles and responsibilities in the administration of occupational therapy services. Topics include: assistance with the management of departmental operations including safety issues, inventory control, budgeting, scheduling of service recipients; development of values, attitudes, and behaviors congruent with OT standards and ethics; the role of OTA in occupational therapy; research publication; program evaluation; supervisory requirements; certification and licensure; reimbursement issues including documentation to insure accountability; personnel training and supervision; continued learning; professional behaviors of time management, personal goal setting and career development; and promotion of OT profession. Resources for life long learning and professional support are provided and promoted including job finding skills such as interviewing and negotiation. Preparation for the national certification examination is provided as well as preparation for Level II fieldwork. (Fall for Day Classes Only)

OTA 213 Therapeutic Adaptations

Prerequisites: OTA 202, OTA 207

Occupational Therapy issues that promote human quality of life are addressed through class, demonstration, and practical activities. Topics include applications of therapeutic adaptation for accomplishment of purposeful activities including family training, community programming, basic orthotics and prosthetics, assistive devices, equipment, and other OT technologies utilizing safety procedures; and assist with planning and implementation of group and individual programs to promote health, function, and quality of life. (Fall for Day Classes Only)

OTA 221 Level II Fieldwork-A

Credit Hours: 12

Credit Hours: 5

Prerequisites: All OTA Level 100 Courses, OTA 201, OTA 202, OTA 204, OTA 206, OTA 207, OTA 209, OTA 212, OTA 213
Provides the opportunity to practice occupational therapy for eight (8) weeks in a supervised health care facility. Topics include application of learned skills through presentation of a case study or special project, and supervised clinical applications of principles learned in the curriculum and appropriate to the learning needs of the student. (Winter for Day Classes Only)

OTA 222 Level II Fieldwork-B

Credit Hours: 12

Prerequisites: All OTA Level 100 Courses, OTA 201, OTA 202, OTA 204, OTA 206, OTA 207, OTA 209, OTA 212, OTA 213
Provides the opportunity to practice occupational therapy for eight (8) weeks in a supervised health care facility. Topics include application of learned skills through presentation of a case study or special project, and supervised clinical applications of principles learned in the curriculum and appropriate to the learning needs of the student. (Spring for Day Classes Only)

PHL 103 Introduction to Venipuncture

Prerequisite: AHS 101, BUS 212

Credit Hours: 4

Provides the student with the skills necessary to perform venipuncture and micropuncture procedures. Class includes an emphasis on sterile procedures, equipment terminology, and acceptable techniques and procedures. (Winter Quarter; Nights Only)

PHL 105 Clinical Practice

Prerequisite: PHL 102

Credit Hours: 8

Provides the student with the opportunity to practice clinical skills in a real world atmosphere. Students are assigned to an area health care facility where they work closely with licensed Phlebotomy Technicians. (Spring Quarter; Nights Only)

PHR 101 Pharmacy Technology Fundamentals

Prerequisites: AHS 101, AHS 102

Credit Hours: 5

Provides an overview of the Pharmacy Technology field and develops fundamental concepts and principles necessary for successful participation in the pharmacy field. Topics include: safety, orientation to the pharmacy technology field, health care organizational structure, pharmacy policies and procedures, cardiopulmonary resuscitation (CPR), infection control, quality control, ethics, laws, and definitions and terms. (Winter Quarter; Nights Only)

PHR 102 Principles of Dispensing Medications

Prerequisites: PHR 101

Credit Hours: 6

Introduces the student to principles of receiving, storing, and dispensing medications. Topics include: purchasing, packaging, and labeling drugs, dispensing responsibilities, distribution systems, documentation, inventory and filing systems, specific drugs, compounding, reference sources, pharmacy math, contamination control, storage and control, and pharmacy equipment. Class includes laboratory and clinical practice. (Spring Quarters; Night Only)

PSY 191 Introductory Psychology

Credit Hours: 5

Credit Hours: 5

A survey of psychology which emphasizes the theoretical and methodological approaches important to psychologists. Topics include biological underpinnings; social environment; lifespan development; personality development and testing; abnormal behavior; and perception, learning, and intelligence. Minimum grade of "C" required to progress to PSY 201. (Quarterly for Day and Evening Classes)

PSY 201 Abnormal Psychology

Prerequisite: PSY 191 with a grade of "C" or better

An examination of the varieties of abnormal behavior, psychopathology, and mental illness. Treatment options, prevention, and assessment are discussed. The student will be taught how to classify disorders according to the DSM-IV. (Fall, Winter, Spring for Day Classes Only)

RDG 095 Developmental Reading I

Institutional Credit Hours: 5

Prerequisite: placement by diagnostic testing

Provides instruction for the development of reading readiness with emphasis on primary and practical reading skills for the adult learner. Topics include phonics, structural analysis, basic sight words, sentence meaning, and survival reading. (Quarterly for Day and Evening Classes)

RDG 096 Developmental Reading II

Institutional Credit Hours: 5

Prerequisite: RDG 095 or placement by diagnostic testing

Emphasizes the strengthening of fundamental reading competencies. Topics include vocabulary development, comprehension skills, study skills, and occupational/survival reading skills. (Quarterly for Day and Evening Classes)

RDG 097 Developmental Reading III

Institutional Credit Hours: 5

Prerequisites: RDG 096 or placement by diagnostic testing

Emphasizes basic vocabulary and comprehension skills development. Topics include vocabulary development, comprehension skills development, critical reading skills, and study skills, test-taking techniques, and occupational reading (Quarterly for Day and Evening Classes)

RDG 098 Developmental Reading IV

Institutional Credit Hours: 5

Prerequisite: RDG 097 or placement by diagnostic testing

Provides instruction in vocabulary and comprehension skills with emphasis on occupational applications. Topics include vocabulary development, comprehension skills development, critical reading skills, and study skills. (Quarterly for Day and Evening Classes)

SCT 100 Introduction to Microcomputers

Credit Hours: 3

Introduces fundamental concepts and operations necessary to use microcomputers. Emphasis is placed on basic functions and familiarity with computer use. Topics include computer terminology, computer operating systems; data storage; file management; equipment care and operation; and an introduction to word processing, database, and spreadsheet applications, and networking. (Quarterly for Day and Evening Classes)

SOC 191 Introduction to Sociology

Co/Prerequisite: ENG 191

Credit Hours: 5

A general introduction to the sociological perspective, its origins, structure, change, and problems. Emphasis on multiculturalism, social class, power, conflict, and change, content of culture, the individual in society, and social interaction. (Fall for Day Classes Only)

SPC 191 Fundamentals of Speech

Credit Hours: 5

Prerequisite: ENG 191 with a grade of "C" or better

Introduces the fundamentals of oral communication. Topics include selection and organization of materials, preparation and delivery of individual and group presentations, and analysis of ideas presented by others. (Fall, Winter, and Spring for Day Classes: Fall, Spring for Evening Classes)

SUR 101 Introduction to Surgical Technology

Credit Hours: 6

Prerequisites: MAT 100, PSY 191, ENG 111, SCT 100, AHS 104; Corequisite: AHS 101

Provides an overview of the surgical technology profession and develops the fundamental concepts and principles necessary to successful participation on a surgical team. Topics include: orientation to surgical technology, asepsis and the surgical environment, basic instrumentation and equipment, principles of the sterilization process, and application of sterilization principles. (Winter for Day Classes Only)

SUR 102 Principles of Surgical Technology

Credit Hours: 5

Prerequisites: SUR 101, AHS 101; Corequisite: SUR 112

Introduces the student to patient care concepts and practices and provides continued study of surgical team participation. Topics include: basic care preparation and procedures, creation and maintenance of the sterile field, surgical supplies and accessory equipment, wound management, principles of surgery, minimal invasive surgery, and outpatient surgical procedures. (Spring Quarter for Day Classes)

SUR 108 Surgical Microbiology

Credit Hours: 3

Prerequisites: AHS 101; AHS 104, MAT 101; Corequisites: AHS 109, SUR 101

Introduces the fundamentals of surgical microbiology. Topics include: historical development of microbiology, cell structure and theory, microbial function, human and pathogen relationships, infectious process, bloodborne and airborne pathogens, defense microorganisms, infection control, and principles of microbial control and destruction. (Winter Quarter for Day Classes Only)

SUR 109 Surgical Patient Care

Credit Hours: 3

Prerequisites: MAT 100 or MAT 101, PSY 191, ENG 111, SCT 100, AHS 104; Corequisites: AHS 101, SUR 101, SUR 108 Introduces a complex diversity of surgical patients. Topics include: physiological diversities and needs, special patient needs, preoperative routine, intraoperative patient care, surgical emergencies, documentation and assessment skills, postoperative patient care, and care of the caregiver. (Winter Quarter for Day Classes Only)

SUR 110 Surgical Pharmacology

Credit Hours: 3

Prerequisites: SUR 101, SUR 108, SUR 109; Corequisites: SUR 102

Introduces the fundamentals of intraoperative pharmacology, and emphasizes concepts of anesthesia administration. Topics include: weights and measurements, drug conversions, interpretation of drug orders, legal aspects of drug administration, intraoperative pharmacologic agents, and anesthesia fundamentals. (Spring Quarter for Day Classes Only)

SUR 112 Introductory Surgical Practicum

Credit Hours: 7

Prerequisite: SUR 101, SUR 108, SUR 109; Corequisite: SUR 102, SUR 110

Orients students to the clinical environment and provides experience with basic skills necessary to the surgical technologist. Topics include scrubbing, gowning, gloving, and draping; assistance with patient care; processing of instruments and supplies; creation and maintenance of a sterile field; basic instrumentation; and environmental sanitation. (Spring for Day Classes)

SUR 203 Surgical Procedures I

Credit Hours: 6

Prerequisite: SUR 102, SUR 110, SUR 112; Corequisite: SUR 213

Introduces students to surgical procedures, incisions, wound closure, operative pathology, and common complications as applied to general and specialty surgery. Topics include: introduction to surgical procedures, general surgery, gynecological surgery, gastrointestinal surgery, genitourinary surgery, head and neck surgery, and plastic and reconstructive surgery. (Summer for Day Classes)

SUR 204 Surgical Procedures II

Prerequisites: SUR 203, SUR 213; Corequisites: SUR 214, SUR 224

Credit Hours: 6

Continues the development of student knowledge and skills applicable to specialty surgery areas. Topics include: ophthalmic surgery, orthopedic surgery, thoracic surgery, vascular surgery, cardiovascular surgery, and neurosurgery. (Fall for Day Classes)

SUR 213 Specialty Surgical Practicum

Prerequisites: SUR 102, SUR 112; Corequisite: SUR 203

Credit Hours: 8

Credit Hours: 8

Continues development of surgical team participation through clinical experience. Emphasis is placed on participation in routine procedures and procedures for general and specialty surgery. Topics include participation in general surgery, obstetrical and gynecological surgery, head and neck surgery, plastic and reconstructive surgery. (Summer for Day Classes)

SUR 214 Advanced Specialty Surgical Practicum

Prerequisites: SUR 203, SUR 213; Corequisites: SUR 204, SUR 224

Provides opportunity for students to complete all required surgical technology procedures through participation in surgery in the hospital environment or simulations in the technical college. Topics include primary scrub on general and specialty surgical procedures; secondary scrub on expanded specialty procedures; plastic, thoracic, vascular, cardiovascular, and neurosurgery procedures; and completion of all required surgical technology clinical competencies. (Fall for Day Classes)

SUR 224 Seminar In Surgical Technology

Prerequisites: SUR 203, SUR 213; Corequisite: SUR 214

Credit Hours: 3

Prepares students for entry into careers as surgical technologists and enables them to effectively review for the national certification examination. Topics include professional preparation, certification review, and test-taking skills. (Fall Quarter for Day Classes Only)

SUR 226 Advanced Patient Care Principles

Credit Hours: 5

Prerequisites: AHS 104, BIO 193, BIO 194, BUS 212, SCT 100, ENG 191, HUM 191, MAT 191, PSY 191, SOC 191, SPC 191, SUR 204, SUR 214; Corequisite: SUR 228

Introduces the fundamentals of advanced surgical patient care concepts. Topics include: invasive patient care monitoring, advanced patient care assessment, phlebotomy, advanced intraoperative surgical skills, methods of drug administration, and leadership skills. (Winter Quarter for Day Classes Only)

SUR 228 Advanced Specialty Surgical Practicum II

Credit Hours: 8

Prerequisites: AHS 104, BIO 193, BIO 194, BUS 212, SCT 100, ENG 191, HUM 191, MAT 191, PSY 191, SOC 191, SPC 191, SUR 204, SUR 214; Corequisite: SUR 226

Continued preparation of students through participation in surgical procedures in the hospital environment and introduces the role and advanced surgical skills of the first assistant. Topics include: application and demonstration of advanced patient care, assessment skills, application and demonstration of advanced intraoperative surgical skills, demonstration of professional communication, employability skills, and demonstration of leadership skills. (Spring Quarter for Day Classes Only)

WLD 100 Introduction To Welding Technology

Credit Hours: 6

Provides an introduction to welding technology with an emphasis on basic welding laboratory principles and operating procedures. Topics include safety practices, hand tool and power machine operations, measurement, laboratory procedures, introduction to codes and standards, welding career potentials and certification eligibility; basic electricity and power sources, and metals characteristics, preparation, and testing procedures. Laboratory demonstrations parallel class work. (Quarterly for Day and Evening Classes)

WLD 101 Oxyfuel Cutting

Credit Hours: 4

Prerequisite/Corequisites: WLD 100
Introduces fundamental principles, safety practices, equipment, and techniques necessary for metal heating and oxyfuel cutting. Topics include metal heating and cutting principles, safety procedures, use of oxyfuel cutting torch and flame cutting apparatus, metal heating and cutting techniques, cutting with manual and automatic cutting machines, and oxyfuel pipe cutting. Practice in the laboratory is provided. (Quarterly for Day and Evening Classes)

WLD 102 Oxyacetylene Welding

Credit Hours: 1

Prerequisite/Corequisite: WLD 100

Introduces the fundamental theory, safety practices, equipment, and techniques necessary to perform basic oxyacetylene welding operations. Topics include welding theory, safety procedures and practices, proper use of gas cylinders, regulators, torches, tips, and other oxyacetylene welding apparatus, welding without filler rods, running beads with filler rods, joint design and making butt lap, and open buff joints, and brazing and soldering. Practice in the laboratory is provided. (Quarterly for Day and Evening Classes)

WLD 103 Blueprint Reading I

Credit Hours: 3

Prerequisite/Corequisite: MAT 101

Introduces the knowledge and skills necessary for reading welding and related blueprints and sketches. Topics include basic lines, sketches, basic views, joint design, and detail and assembly prints. (Quarterly for Day and Evening Classes)

WLD 104 Shielded Metal Arc Welding I

Credit Hours: 6

Prerequisite/Corequisite: WLD 100

Introduces the fundamental theory, safety practices, equipment, and techniques required for shielded metal arc welding (SMAW) in the flat position. Qualification tests, flat position, are used in the evaluation of student progress toward making industrial standard welds, Topics include SMAW safety and health practices; SMAW theory; basic electrical principles; introduction to SMAW machines; equipment setup; identification and selections of low hydrogen, mild steel, and other common electrodes; joint design; selection and preparation of materials; and production of beads and joints in the flat position. (Quarterly for Day and Evening Classes)

WLD 105 Shielded Metal Arc Welding II

Credit Hours: 6

Introduces the fundamental theory, safety practices, equipment, and techniques required for shielded metal arc welding (SMAW) in the horizontal position. Qualification tests, horizontal position, are used in the evaluation of student progress toward making industrial standard welds. Topics include SMAW safety and health practices and procedures; production of welds; horizontal joints; and uses of low hydrogen, mild steel, and other common electrodes in horizontal position welding. (Quarterly for Day and Evening Classes)

WLD 106 Shielded Metal Arc Welding III

Credit Hours: 6

Prerequisite/Corequisite: WLD 100

Introduces the major theory, safety practices, and techniques required for shielded metal arc welding (SMAW) in the vertical position. Qualification tests, vertical position, are used in the evaluation of student progress toward making industrial standard welds. Topics include SMAW safety and health practices, production of welds of uniform width and height; manipulation of electrodes to produce specification welds; vertical joints; and applications of low hydrogen, mild steel, and other common electrodes in vertical position welding. (Quarterly for Day and Evening Classes)

WLD 107 Shielded Metal Arc Welding IV

Credit Hours, 6

Prerequisite: WLD 104

Introduces the major theory, safety practices, and techniques required for shielded metal arc welding (SMAW) in the overhead position. Qualification tests, overhead position, are used in the evaluation of student progress toward making industrial standard welds. Topics include SMAW safety and health practices; production of welds of uniform width and height; manipulation of electrodes to produce specification welds; overhead joints; and applications of low hydrogen, mild steel, and other common electrodes in overhead position welding. (Quarterly for Day and Evening Classes)

WLD 108 Blueprint Reading II

Credit Hours: 3

Prerequisite: WLD 103

Emphasizes welding symbols and definitions through which the engineer or designer communicates with the welder. Welding symbols are considered an integral part of blueprint reading for the welder. Topics include weld symbols and abbreviations; basic joints for weldment fabrications; fillet welds, groove welds; back or backing and melt-thru welds; plug and slot welds; surfacing welds; flash welds and upset welds; and flange, spot, projection, and seam welds. (Quarterly for Day and Evening Classes)

WLD 109 Gas Metal Arc Welding (GMAW/MIG)

Credit Hours: 6

Prerequisite: WLD 100

Provides knowledge of theory, safety practices, equipment, and techniques required for successful gas metal are welding. Qualification tests, all positions, are used in the evaluating of student progress toward making industrial standard welds. Topics include GMAW safety and health practices, GMAW theory; machines and set-up; wire specifications; joint design; shielding gases; and production of GMAW beads, bead patterns, and joints in all positions. (Quarterly for Day and Evening Classes)

WLD 110 Gas Tungsten Arc Welding (GTAW-TIG)

Prerequisite: WLD 100

Credit Hours: 4

Provides knowledge of theory, safety practices, inert gas, equipment, and techniques required for successful gas tungsten arc welding. Qualification tests, all positions, are used in evaluating of student progress toward making industry standard welds. Topics include safety and health practices, metals weldable using GTAW; shielded gases; metal cleaning procedures; GTAW machines and equipment setup; selection of filler rods; GTAW weld positions; and production of GTAW beads, bead patterns, and joints in all positions. (Quarterly for Day and Evening Classes)

WLD 112 Preparation for Industrial Qualification

Credit Hours: 4

Prerequisites: WLD 101, WLD 102, WLD 105, WLD 106, WLD 107, WLD 108, WLD 109, WLD 110 Introduces industrial qualification methods, procedures and requirements. Students are prepared to meet the qualification criteria of selected national welding codes and standards. Topics include qualification test methods and procedures, codes

and standards, fillet and groove weld test specimens, and national industrial student preparation for qualification and job entry. (Ouarterly for Day and Evening Classes)

WLD 150 Advanced Gas Tungsten Arc Welding

Credit Hours: 5

Prerequisite: WLD 110

Provides knowledge of theory, safety practices, inert gas, equipment, and techniques required for successful advanced gas tungsten are welding (GTAW). Qualification tests, all positions, are used in the evaluation of student progress toward making advanced level industrial standard welds. Topics include: GTAW safety and health practices; shielding gases; metal cleaning procedures; GTAW machines and equipment set up; selection of filler rods; GTAW weld positions; and advanced production of GTAW beads, bead patterns, and joints.

WLD 160 Welding and Joining Technology Half-Time Internship

Credit Hours: 5

Prerequisite: Completion of two full quarters with a GPA of 3.0 or better

Provides additional skills application in an industrial setting through a cooperative agreement among industry, the Welding Joining Technology program, and the student to furnish employment in a variety of welding occupations. Emphasizes student opportunities to practice welding skills in a "hands-on" situation and to work in an industrial environment under the supervision of a master welding technician. Supplements and complements the courses taught in the Welding and Joining Technology program. Topics include: application of welding and joining skills, appropriate employability skills, problem solving, adaptability to job equipment and technology, progressive productivity, and acceptable job performance.

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S T A F

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Accounting Technician	Sharron Queen
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Maintenance	Phil Ingi
Maintenance	David White
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Economic Development Programs Instructor	Patty Hart

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	Counselor, Financial Aid
	Counselor, Financial Aid
Pamela Long	Counselor, Financial Aid
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Vicki Thompson	Assistant, Job Placement
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Michelle Jackso	Assistant, Registrar
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Jennifer Watkin	Assistant, Admissions and Career Planning
James Watso	Database Administrator
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Beverly Mathi	Director, Career Depot / Coordinator, New Connections
	Coordinator, Georgia Fatherhood
	Facilitator, Georgia Fatherhood
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C A L E N D A R

Academic Calendar 2002-2003

Summer Quarter, 2002 Current Student Registration Registration Last Day for Late Registration First Day of Class Last Day to Drop/Add a Class Last Day for a 75% Refund Midterm Last Day to Officially Withdraw Holiday Final Examination Period

Fall Quarter, 2002
Current Student Registration
Registration
Last Day for Late Registration
Faculty Inservice
First Day of Class
Last Day to Drop/Add a Class
Last Day for a 75% Refund
Midterm
Last Day to Officially Withdraw
Holiday
Final Examination Period

Winter Quarter, 2003
Current Student Registration
Registration
Last Day for Late Registration
First Day of Class
Last Day to Drop/Add a Class
Last Day for a 75% Refund
Holiday
Midterm
Last Day to Officially Withdraw
Final Examination Period

Spring Quarter, 2003
Current Student Registration
Registration
Last Day for Late Registration
First Day of Class
Last Day to Drop/Add a Class
Last Day for a 75% Refund
Midterm
Last Day to Officially Withdraw
Holiday
Final Examination Period
Commencement

May 6-10, 2002 June 11, 2002 June 18, 2002 July 8, 2002 July 15, 2002 July 15, 2002 August 13, 2002 August 20, 2002 September 2, 2002 September 19-20, 2002

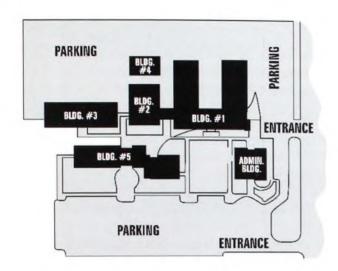
August 19-23, 2002 September 18, 2002 September 20, 2002 September 30, 2002 October 1, 2002 October 7, 2002 October 7, 2002 November 5, 2002 November 12, 2002 November 28-29, 2002 December 13 & 16, 2002

November 11-15, 2002 December 12, 2002 December 17, 2002 January 6, 2003 January 13, 2003 January 13, 2003 January 20, 2003 February 12, 2003 February 19, 2003 March 20-21, 2003

February 17-21, 2002 March 19, 2003 March 21, 2003 March 31, 2003 April 7, 2003 April 7, 2003 May 5, 2003 May 12, 2003 May 26, 2003 June 11-12, 2003 June 13, 2003

Finding Your Way Around

We know how tough it can be to find your way around the first couple of days. We hope the maps below can help. And remember, you can always ask any of our faculty and staff for directions. We're here to help.



Administrative Building

- -Office of the President
- -Student Services
- -Business and Industry Services Programs
- -Academic Affairs
- -Business Office

Building 1

- -Financial Aid Office
- -Counseling and Assessment
- -Northwest Georgia Career Depot
- -Classrooms and Labs

Building 2

-Classrooms and Labs

Building 3

-Classrooms and Labs

Building 4

-Adult Literacy Office

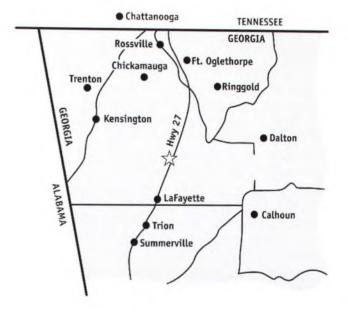
Building 5

Upper Level

- -Library Services
- -Classrooms and Labs

Lower Level

- -Campus Bookstore
- -Cafeteria
- -Classrooms and Labs



- 10 minutes from Fort Oglethorpe
- 10 minutes from LaFayette
- 30 minutes from Summerville
- 15 minutes from Ringgold
- 35 minutes from Dalton
- 25 minutes from Chattanooga
- 20 minutes from Rossville
- 40 minutes from Trenton
- 25 minutes from Trion

And, check out our location in Catoosa County!

