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86/87



Cincinnati Technical College



1986-1987 Cincinnati Technical College Catalog/Handbook

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All statements in this publication are announcements of present policy only and are subject to change at any time without prior notice. They are not to be regarded as offers to contract.

Cincinnati Technical College does not discriminate on the basis of race, age, color, handicap, national origin or sex in the admission of students or in any activity conducted by the Cincinnati Technical College.

Cincinnati Technical College is an equal opportunity institution.

Cincinnati Technical College 3520 Central Parkway Cincinnati, Ohio 45223 (513) 559-1520 Admissions Office 559-1537

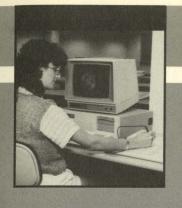
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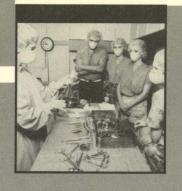
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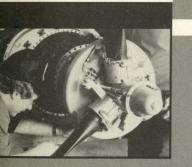




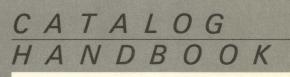


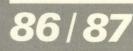








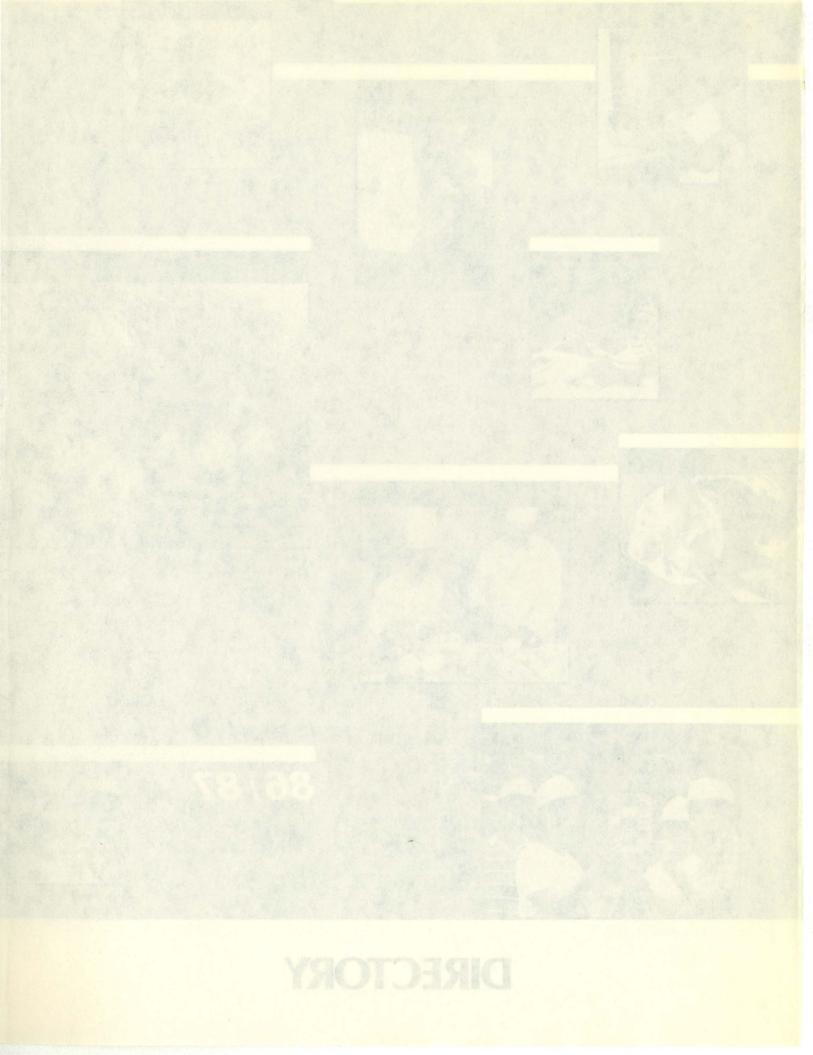








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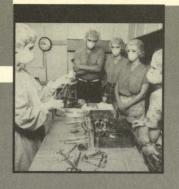


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Academic Advising Program Coordinator	Scheduling Supervisor Sue Erftenbeck
Academic Probation and Dismissal Room 141	Registration Supervisor Carolyn Jones
Admissions Counseling Room 157	Academic Records Supervisor Treva Hanseman
Admissions Procedure	Clerical Assistant Karen Magness-Lewe
Admissions Flocedure	
Admission Test Dates Room 157	Learning Resource Center James H. Horton
Athletics Room 146A	Information Services Debbie Tucker
Advanced Standing Program Coordinator	Thelma Barnes
Applications Room 157	Duane Gardner
Attendance Forms	Gena James
Financial Aid Room 158	Technical Services Rose von Volborth
Veterans Room 157	Marianne Cramer
Billing Problems Cashier's Window	Media Services Dave Evans
Bus Information Receptionist's Desk	Marcia Caulton
Catalog Room 157	William Shaw
	vvillarii Sriaw
Change of Address, Name Room 153	Incincertus Jechnologies 444 (1997)
Commencement Information Room 156	Office of Financial & Business Affairs
Consortium Registration Room 153	Vice President
	vice resident
Co-op Employment Program Coordinator	Executive Assistant Cheri Furlong
Coordinator Interview Appointment Room 157	Financial Services
Course Schedule Program Coordinator, Room 153	Receptionists Gloria Donaldson
	Receptionists
Credit by Examination Program Coordinator	Carolyn Larose Purchasing Kathleen Austing
Developmental Education Room 150, Learning Resource Center	Purchasing
Drop Add Forms Room 153 and Division Offices	Controller
Enrollment Verification Room 153	Accountants Herb Bom
(Auto Insurance, CETA, Child Care, Food Stamps, Job Corps, Social	Harry Bradley
Security, Student Loan Deferment, Welfare)	Terry Taylor
	Harry Bradley Terry Taylor Cashier Linda Cole
Financial Aid Expense Checks Cashier's Window	Castilei Linda Cole
Financial Aid Information Room 158	
Foreign Students Room 157	Student Financial Aid Frank Barlag
Constal Information	
General Information Receptionist's Desk	Counselors Naomi Cain
Grade Change Course Instructor	Janice Lewis
Grade Questions Room 153	Tom Mann
Graduation Petition Room 153	Janice Lewis Tom Mann Facilities
	racilities
Health Insurance Room 157	Facilities Services Leonard Bidwell
Housing	Program Chair, until luther
Intramurals Room 146A	
	Dean Ann I. Rasche
Library Information Learning Resource Center	Dean Ann I. Rasche
Notaries	Executive Assistant Gaby Boeckermann
Herb Bom, Room 140 Wayne Vaughn, Room 137	Counseling Services John Wagner
Linda Cole, Cashier Gene Wieland, Room 153	Linda Meador
Linda Cole, Cashler Gene Wieland, Room 133	
Parking Decals POM Office, Room 15	Veterans Yolanda Lawrence
Parking Tickets	Assistant
Parking Tickets Cashier's Office	Assistant
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Instructors Stewart Bonem	Physical Sciences/Mathematics Technologies
Richard Brown	Dean Thomas Stark
Karen Gambrell	Executive Assistant Fave McCreadie
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Keith Mains	Industrial Laboratory Technology Martha Brosz
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Lou Owsley	Laser/Optics Technology Dr. Prem Barta
Doug Parman	Instructors
Len Penn	Terrence Hugo
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	Rodney Rupp Thomas Stark
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Executive Assistant Pat Robbins	Edward Sundernaus
Director, Academic Affairs Paul A. DeNu, P.S.	Richard Swanson
Director, Cooperative Education & Graduate	Edward Sunderhaus Richard Swanson William Tulloss Adjunct Faculty Adjunct Faculty Loie Brount
Placement J. Terry Brown	Adjunct Faculty Michael Barney
Director of Facilities	Lois Brauntz Robert Duffy
Director of Industrial Training & Extended Services Gary Graff	Robert Duffy
Aviation Technology	Linda Ford Linda Hoog
Co-op & Grad Placement James Schmid	Linda Hoog
Program Chair James Schmid	Ann Lampe Alice Portune
Biomedical Electronics Technology	Wobni Wanalida Michael Thomas
Co-op & Grad Placement J. Terry Brown	Michael Thomas
Program Chair Steve Yelton	Jerome Weber
Program Chair	House all Alexandra Commission Room 157
Co-op & Grad Placement Jerri Thomas	Communication Skills/Social Sciences
Program Chair John Hubbard, P.E.	Dean Thomas Stark
Computer-Integrated Manufacturing Engineering	Executive Assistant Faye McCreadie
Technology	Assistant Dean
Co-op & Grad Placement Jerry Froehlich	Writing Center ManagerJohn Battistone
Program Chair	Technical Writing and Editing Pam Ecker
Electro-Mechanical Engineering Technology	Marc Croon
Co-op & Grad Placement Roger Schaller	Marc Green Instructors John Battistone
Program Chair	Marcus Croop
Electronics Engineering Tech	Marcus Green James Hassan
Co-op & Grad Placement Thomas Newbold	Takes Dames Hassan
Program Chair	Harry Hellik
HVAC Design Engineering Technology	Mary Lee Howes Marcha Hunley-Belanger
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Program Chair Clifford A.Schulte, P.E., P.S.	Mike Jones
Mechanical Engineering Technology	Vill mook Daniel Mellinger
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Connie Van Mouwerick	Director
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Assistant Dean Dr. Tom Kober	Hone Page Ligherman
Admissions Counselor Susan Marcotte	Hope Page Lieberman Susan Madsen
Dietetics Eileen Coffe-Findlay	
rose LIA Elodie Huffman	James Wareotte
Marianne Krismer	Thomas Otton
Medical Assisting Nancy Walters	Kathleen Resnick
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Medical Laboratory Janelle Gohn	Carolyli Nost
Carolyn Laemmle	Cyra D. Sanborn
Carolyn Laemmle Medical Records Rosemary Clark	
lanette Richard	Administrative Services Senior Assistant to the President
Respiratory Therapy Bob Eveslage	Senior Assistant to the President Dr. leffence J. Glefin
Sally Blocher	Management Information Service
Surgical Technology	Director, Computer Systems, Programming &
Judith Spraley	Operations Vicki J. Candella
Unit Clerk/Coordinator Daphne Robinson	System Programmer/Analyst Diane Schrand
Instructors	
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Lab Manager John Szasz	Tony Hover
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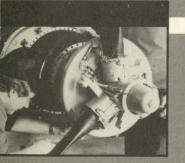














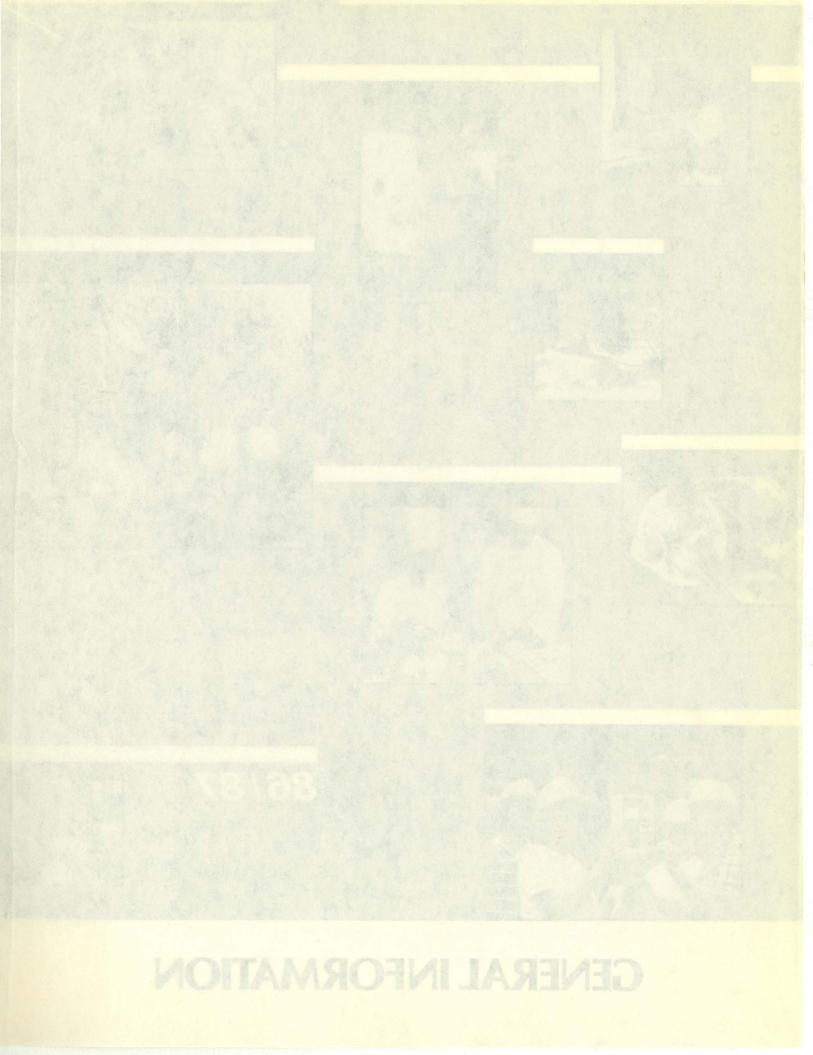
CATALOG HANDBOOK

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GENERAL INFORMATION



Philosophy and Mission of the Cincinnati **Technical College**

We believe that Cincinnati Technical College makes an important contribution to the technical status, economic growth, and social well-being of the Tri-State Area. We believe that to continue to serve the community the College must be willing to modify, adapt, and create technical programs that meet the ever-changing needs of students, business, industry and the professional community. We believe that it is the College's role to help students to learn to think independently, to value logical and tested conclusions, to develop problem solving abilities, to communicate well, and to function effectively with other people. We believe in the dignity and worth of the individual and therefore provide educational opportunities for students regardless of age, economic or social background, or enrollment status. We believe that for continued growth we must display the ability to be creative, to look to the future as well as the past, to strive for excellence, and to exhibit leadership in the expansion of technical knowledge and skills through the achievements of the faculty and the students. We hope to develop in our students the desire to continue their education throughout their lives.

The College has a vital and distinctive mission to perform in addressing the educational and economic needs of the Tri-State Area. The College seeks to implement its philosophy by

- A. Education featuring a combination of theory and practice primarily through appropriate classroom, laboratory, and cooperative/clinical education experiences.
- B. Technical associate degree education programs that lead to entry or advanced level employment for graduates.
- Certificate programs, specialized training, and adult continuing education opportunities of less than one-year duration.
- Services and educational experiences to assist students in determining and reaching their educational objectives.
- Opportunities for students to develop the skills needed to enter and succeed in technical education programs.
- Technical, science, and general education courses that can be applied toward four-year degree programs.

The College endeavors to provide leadership and services in the promotion of technical and cooperative education.

Technical Education

A scientific revolution, underway the last several decades, has quickened the pace of change in all the professions and transformed the occupational role and the educational requirements of the professionally trained employee. In the past, the professional, the product of four or more years of college, had the time, the training and the duty to perform many practical functions in work. New scientific discoveries and technological advances have so enlarged the body of theoretical knowledge underlying many of the professions that now there is too little precious time in the professional curricula to develop practical skills. The mastery of theory has become the first priority of the professional.

As a consequence, the professional needs the assistance of a new member of the employment team, the technician or semiprofessional. And, to prepare this semi-professional to work with the scientist, or the engineer or the medical specialist, the technician requires a new type of college education.

The technician must master, to some extent, the theoretical principles relating to a specialized technology and develop the practical abilities the specialty requires. Such educational preparation is above the the high school level, but does not require the four or more years of college needed by the professional. An intensive program, usually of two years duration and designed to prepare the student for immediate and effective employment upon graduation, suffices. Such a program is technical education.

Technical education, to be effective, requires a special educational environment: a faculty dedicated to practical education; laboratory equipment adequate to make such education possible; a governing body and administration dedicated to the philosophy of this education; a close working relationship with business and industry. The technical college provides that special environment.

Ohio has a network of sixteen technical colleges, all created in the last twenty years or so as a result of federal, state and local

Cooperative Education

Cincinnati Technical College's "Co-opportunity" Plan

The Boards of Trustees, the administrative staff and the faculty of the Cincinnati Technical College share a profound conviction that the school's distinctive plan of cooperative education offers the soundest possible approach to technical education. The objective of any associate degree program in technical education is to prepare the student for immediate employment and potential advancement as a technician. The classroom can provide valuable laboratory experience but it cannot duplicate an employment environment. Because many Cincinnati Technical College students spend every other term in supervised cooperative employment they are exposed to such an environment at regular intervals. The practical training received in such employment enriches the academic experience.

The College is offering 44 associate degree programs and majors and seven certificate programs in 1986-87. Each program was developed to meet a specific need for technicians in local industry demonstrated by a formal or informal feasibility study and supported by the counsel of an advisory committee representing the potential employers of such technicians.

Outcomes of Cincinnati Technical College's Cooperative Education Plan

Cincinnati Technical College, with regard to its mission and philosophy, has developed a cooperative education plan of combining solid academic and technical education with alternating terms of work experience. The following are the outcomes of the plan as they affect the student, the College and the community.

Outcomes for the Student

- (1) Educational—Students support what they learn in class with "real life" work experience. These two learning situations complement each other.
- (2) Career Clarification—The technical classwork and on-thejob experience help the student focus on particular career areas and decide if those areas are appropriate for them.
- (3) Social and emotional—Students develop maturity by experiencing a responsible position in the real world with support and guidance to insure that learning takes place.
- (4) Financial—Most full-time students are able to earn money while gaining work experience. These earnings enable many students to help finance their education. Also, the work experience the students receive offers the opportunity for better positions and better pay upon graduation.

Outcomes for the College

- (1) Comprehension of employment needs—The efforts by the College to establish cooperative education jobs and place graduates have enabled the College to be more sensitive to the needs of the area.
- (2) Utilization of the physical plant—The alternating work experience terms enable the College to double its student capacity and make more efficient year-round use of the physical plant.

(3) Employment involvement—Employers actually become directly involved in the educational process of the College through the cooperative education plan. They also share in the cost of education by providing on-the-job training.

(4) Faculty awareness—Faculty stay current on activities in their fields through contact with business and industry.

Outcomes for the Community & Business

(1) Supply of technicians—The College's programs produce a supply of trained, experienced technicians for the employment community. This makes the community more attractive for business development.

(2) Staffing—Employers have the opportunity to train and observe students and to evaluate their suitability for fulltime employment before they make the commitment to hire

ull-time

(3) Economic gain—Increased earning potential of the graduates benefits the community in terms of productivity, taxes paid and contributions made.

(4) Citizen productivity—Graduates enter the workforce with well-clarified career goals and experience which enable them to be more productive and motivated workers.

History of Cincinnati Technical College

Because a great and growing shortage of technicians existed in the area, the Cincinnati Board of Education established the Cincinnati Cooperative School of Technology, a two-year institute for high shcool graduates, in 1966. The function of the school was to train technicians in a program combining college-level classroom instruction and cooperative work experience.

Since all technical education programs in Ohio were to come under the authority of the Board of Regents, the Cincinnati Board of Education proposed in April, 1969 that the Regents establish a Cincinnati Technical Institute District and approve CCST as the nucleus of the technical institute to serve that district. These pro-

posals were approved by the Regents in May, 1969.

The Board of Trustees of the new district—two appointed by the Governor and five elected by the Cincinnati Board of Education—held their organizational meeting on September 15, 1969. At that meeting they appointed the President of the Institute, and approved the Institute operating plan and associate degree programs. They also changed the name of the school to Cincinnati Technical Institute, to conform with the designations of other institutes in the state.

In June, 1970, the Board of Trustees of the Institute entered into a contract with the Cincinnati Board of Education to purchase the Courter Technical High School property, where the College is

located, for \$8.4 million.

In 1972 the name of the Institute was changed to Cincinnati Technical College, in accordance with state statute. On June 27, 1974, the phase out of the high school was completed and the College made the final payment to the Cincinnati Public Schools.

In its twenty years CTC has experienced tremendous growth. The first year, 1966-67, saw an enrollment of 115 students in four degree programs, a seven member staff and 37 co-op employers. This past year it enrolled 4100 students in 45 degree and certificate programs and options; has a staff of 220 plus 100 part-time instructors; and has 500 co-op employers.

Accreditations & Memberships

Ohio Board of Regents

Division of Vocational Education, State Department of Education
North Central Association of Colleges and Secondary Schools
Ohio Technical and Community College Association
FAA—Approved Aircraft Maintenance Technician School
Member of the American Society of Allied Health Professions
Member of the Ohio Organization of Technical Colleges
Member of Cooperative Education Association
Member of American Technical Education Association
Member of American Association of Community and Junior
Colleges

Member of National Junior College Athletic Association

Greater Cincinnati Consortium of Colleges and Universities

Twelve institutions of higher learning in the Cincinnati area, including Cincinnati Technical College, are members of the Greater Cincinnati Consortium of Colleges and Universities. Among the benefits of the Consortium is that regularly enrolled full-time students of one institution, under certain conditions, may register for credit in courses offered by other Consortium institutions in which no instruction is available at their own institution. Contact the Records Office for information.

Members of the Consortium are the Art Academy of Cincinnati, The Athenaeum of Ohio, Chatfield College, Cincinnati Technical College, College of Mount St. Joseph on the Ohio, Hebrew Union College—Jewish Institute of Religion, Miami University, Northern Kentucky University, St. Thomas Institute, Thomas More College, University of Cincinnati, and Xavier University.

Reserve Officers Training Corps

Cincinnati Technical College offers Army ROTC military science courses on campus. It also has a cross-enrollment agreement with the Air Force ROTC at the University of Cincinnati.

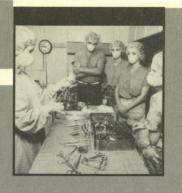
Army and Air Force personnel teach the General Military Training (GMT) course classes. Enrollment in these classes entails no service obligation. Books and uniforms for these courses are provided free to the student.

Also, there are two programs within each branch. The four-year program is for the student who will go on to a four-year institution after graduation from Cincinnati Technical College. The student would attend classes and drill periods on the host campus while attending regular classes on campus at Cincinnati Technical College. The two-year program is for the veteran who will be continuing after graduation from the Cincinnati Technical College to earn his or her bachelors degree. The veteran would apply for this program during his or her fourth in-school term at Cincinnati Technical College. If selected, the student would enter upon graduation from Cincinnati Technical College.

Details may be obtained from the Veterans Affairs Office, room 157.















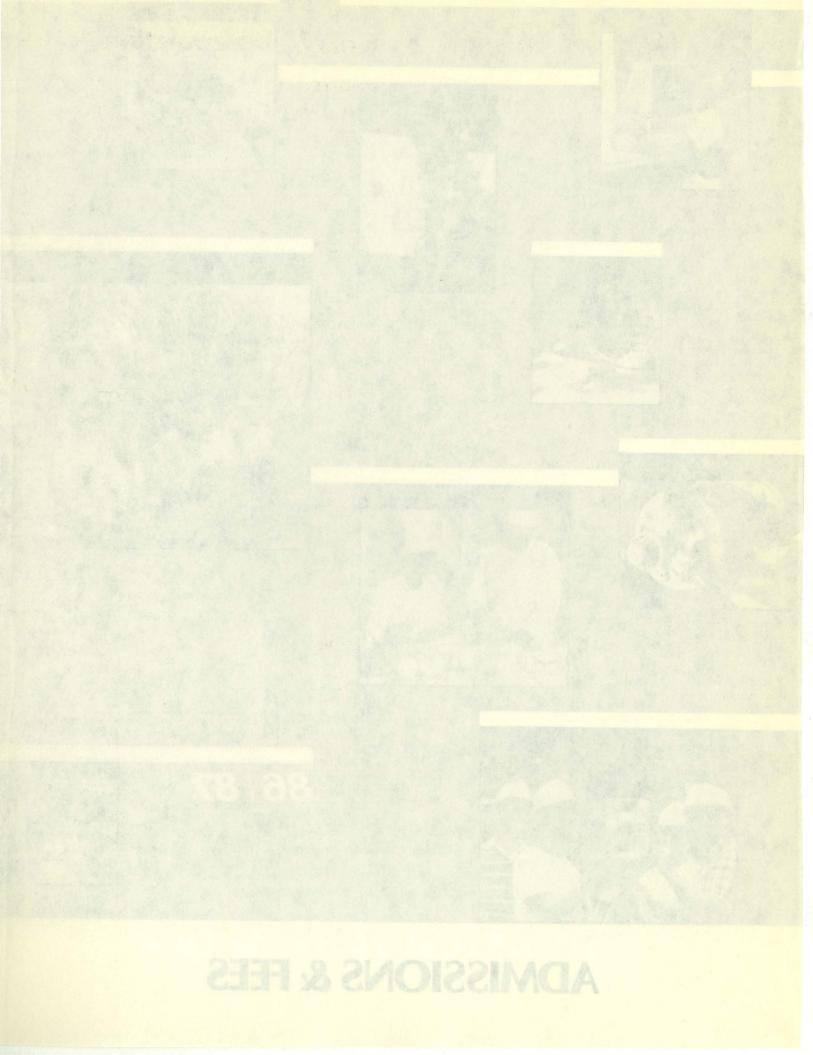
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ADMISSIONS & FEES



Admissions Information

Application for Admission

Apply early! Each year some programs are filled by early spring. (Applicants for these filled programs may be placed on a waiting

To apply, follow these steps carefully:

- 1. The applicant should complete an application and return it with the \$20 application fee to Cincinnati Technical College.
- 2. He or she should have a copy of his or her high school transcript and college transcript, if applicable, sent directly to the College's Records Office. (With a GED, the applicant should submit a copy of scores.)

3. The applicant will be notified of acceptance.

Before the program major can be approved:

- 4. The applicant should take the placement tests.
- 5. After the applicant's file is complete and has been reviewed by the program coordinator/advisor, the applicant will be notified as to the admission interview status.
- 6. The applicant should call the Admissions Office for an interview appointment.

NOTE:

- Apply early! Some programs are filled by March 1 each year.
- Both the \$20 application fee and the \$30 matriculation fee are non-refundable.

Matriculation Fee

A \$30 matriculation fee is payable at the time of the first registration after the program major has been approved. The fee covers all subsequent registration fees and drop/add fees while a degree/certificate student and graduation.

The fee will not be refunded if the applicant decides not to enter

Cincinnati Technical College.

Credit for the fee deposit may be extended for 1) twelve months when an applicant fails to register due to illness or other causes entirely beyond the applicant's control or 2) the period of active duty when an applicant enlists in military service.

Application for credit must be made in writing at the time of the admission cancellation. Proof of any extenuating circumstances may be required. The Vice President for Finance and Business Affairs is authorized to make decisions on these matters in accordance with school regulations.

International Applications

International applicants must follow the prescribed application procedures as set forth on this page. In addition, all applicants not in the United States must submit TOEFL examination results.

A Declaration and Certification of Finances must be submitted to the College before a Certificate of Eligibility (Form I-20) will be authorized. Likewise, an international student must submit a \$2000 deposit prior to the issuance of the I-20 form. This deposit will be credited to the individual's account and used for the payment of tuition, fees and books only. All other expenses, room, board, transportation and incidental expenses, must be provided by the student. In order to facilitate enrollment, an international student should contact the International Student Advisor.

Placement Tests

All applicants for admission to the Cincinnati Technical College must satisfy the placement test requirement before final approval of a program major and enrollment as a degree/certificate student. The tests are administered at the College.

At the discretion of the program coordinator/advisor, other test results or previous college experience may be reason to waive the placement test requirement. Contact the Admission Records Office to request that a waiver be processed.

Financial Information

Student Expenses

The Ohio Board of Regents provides a student subsidy to the Cincinnati Technical College for each Ohio resident enrolled. The amount received from the Regents is less than one-half of the College's operating costs. An additional nine percent is provided by the State Department of Education, Division of Vocational Education. The balance must come from tuition payments and other sources. Out-of-state residents pay the highest amount of tuition since the College receives no Regents' subsidy for their instruction. (See the end of this section for complete explanation of residency determination.)

Fees are non-refundable other than the Instructional Fee.

Fees and Charges

Tees of	and Cha	Be	3 TO 10		
Resident Status	Instructional		General		Cost per
State of Ohio Resident	Fee \$28	_	Fee 2 \$3	_	Credit Hour
Out-of-State Resident	\$46	+	\$3	=	\$49
Other Charges:	ale includim	labo	not refu	are	2007
Application Fee					\$20
					cleta
Matriculation Fee					\$30
*Credit By Examination Fee (prior to enrollment in cou					\$25
Graduation Cap, Gown, Inv	itations		P	urch	ased in
				Book	cstore
Late Registration:					uter
(1st day after the beginning	g date of ter	m)			\$10
(2nd day after the beginni	ng date of te	erm)			\$20
(3rd day after the beginning	ng date of te	rm)			\$30
Partial Payment of Fees					\$10
Transcript Fee					\$ 3
Vehicle Registration Fee, pe	r term, lowe	er lot	t		\$ 7
Campus Parking Permit Fee	, per term				\$25
Check Fee (check returned by	by bank)				\$10
Part-time Registration					\$ 5
Identification Card					\$ 1

Laboratory Fees on a per course basis

*If a student has already enrolled in a course and wishes to take a proficiency exam to receive credit, the student must submit a request form to the appropriate division dean. The tuition payment will cover the cost of the examination. However, if a student fails the exam and must continue in the course, a \$5 fee will be charged.

Fees are subject to change.

²The General Fee finances non-instructional services to students for which instructional

Co-op Employment

Three (3) credit hours for approved cooperative work experience are granted for terms 1, 2, and 3, and two (2) credit hours for terms 4 and 5 in most technologies. Please refer to the specific curriculum to determine exact co-op credits required. Charges for co-op credit must be paid in advance on the established registration date.

Books and Supplies

The cost of books and supplies can vary greatly from term to term. Also, different programs have different requirements. Students in the engineering technologies, for example, generally will spend more on supplies and equipment than the business oriented programs.

The first school term usually is the most expensive one as students purchase books and supplies at that time that they also use in later terms. The average range of expenses for books and supplies is \$300 per year.

Senior Citizens and and vac amateria state in the control of the c

Senior citizens may register free of charge to audit courses as space is available. Regular tuition will be charged to those senior citizens who wish to receive credit for the courses. They must pay tuition as well as fees for all non-credit courses. (An eligible senior citizen is one who is sixty years of age or older and who has resided in Ohio for at least one year prior to registering.

Refunds

- Fees are not refundable including the \$30 matriculation fee.
 A refund of basic tuition may be requested by any student who withdraws from the College according to the schedule detailed below.
- Requests for refunds will only be considered if the student completes and signs the official college student transaction form in conjunction with the coordinator of that student's technology.
- Students who do not follow the established withdrawal procedures of the College will not be eligible for a refund.
- Withdrawal of a student who has been permitted to make only a partial payment at registration will be handled precisely as it would have been had complete payment been made.
- 5. If a student has a financial obligation or balance due the College and leaves without following the established withdrawal procedure, the entire balance is due immediately and no refund or credit is possible.

6. The official date of total withdrawal is the date recorded on the student transaction form when it is signed by the student and coordinator. Tuition refunds for total withdrawal, when allowed, are made on basic tuition only at the following rates:

During the first week of term 80% Second week 60% Third week 40% Fourth week 20%

7. If a student drops a course during the first or second week of the academic term and signs a course withdrawal form, the student will be entitled to an 80% refund of the instructional fee for that course in the first week and 60% of the instructional fee in the second week. Students must process an Add/Drop transaction form.

The Cincinnati Technical College reserves the right to revise this statement of tuition refunds at any time.

Residence of Students

In determining whether or not an enrolled student at Cincinnati Technical College is an Ohio resident, a determination of fact shall be made in accordance with the Ohio Board of Regents' Residency Rule and Guidelines 3333-1-10, Ohio Student Residency for State Subsidy and Tuition Surcharge Purposes. (Copies are available in the Admissions Office.) A non-resident student may request a review of his or her residency status after living for twelve consecutive months in Ohio.

A review of a student's residency status will be made upon proof of proper documentation that the student has been a resident of the state of Ohio for twelve (12) consecutive months prior to the request for residency review. A form for residency review is available in the Office of the Dean of Student Services. The completed form and documentation of one year residency in Ohio should be presented to the dean for consideration and evaluation. The Vice President for Finance and Business Affairs makes the final determination.

Students who move from Ohio to another state retain their Ohio residency status for one year.

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At the discretion of the program coordinator/advisor other test as the conference of the previous college experience may be reason to waive the lacement test requirement. Contact the Admission Records

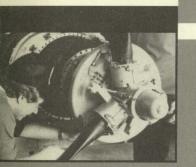














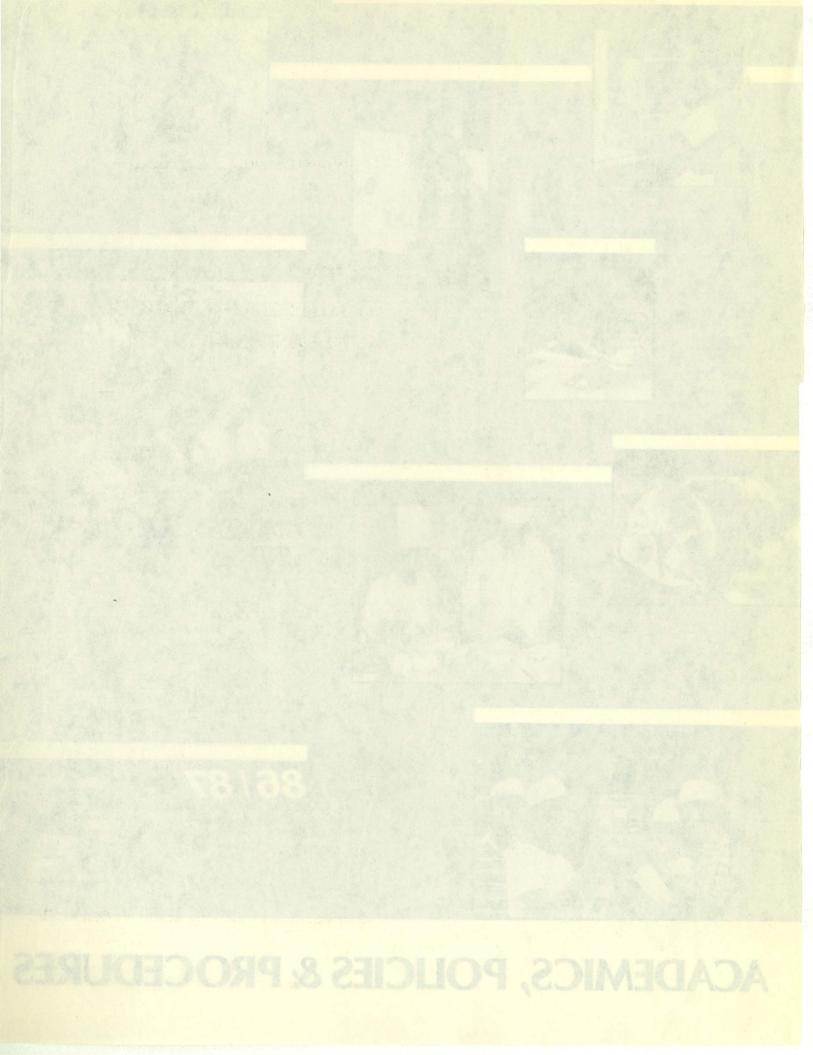
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ACADEMICS, POLICIES & PROCEDURES



Graduation Requirements

To qualify for the associate degree, a student must declare a major, fulfill the program requirements as identified at the time of acceptance, and attain at least a 2.0 core grade point average (GPA) and a 2.0 cumulative GPA. It is the student's responsibility to successfully complete the courses necessary for graduation. A transfer student must complete at Cincinnati Technical College no less than 50 percent of the total non-co-op/non-clinical credit hours required by his or her program and maintain a 2.0 core GPA and a 2.0 cumulative GPA.

As a part of the graduation requirements, a student must complete at least 21 credit hours in the communication skills/social sciences area. Of the 21 credit hours, 12 must be in communication skills and 9 in the social sciences. The communication skills requirement consists of 6 credit hours in written composition, 3 credit hours in technical writing or business communications, and 3 credit hours in oral communication. To complete the minimum requirements in the social sciences, a student, in consultation with an academic advisor, will select a minimum of 3 courses (9 credit hours) from at least 2 of the 4 areas: psychology, economics, sociology, and government relations.

To qualify for a certificate, a matriculated student must fulfill the program requirements as identified at the time of acceptance, and attain no less than a 2.0 core grade point average (GPA) and 2.0 cumulative GPA. It is the student's responsibility to successfully complete the courses necessary for graduation. A transfer student must complete at Cincinnati Technical College at least 50 percent of the total non-co-op/non-clinical credit hours required by his or her program and maintain a 2.0 core GPA and a 2.0 cumulative GPA.

A student who changes programs is subject to the academic requirements of the new program at the time of the change. A student who extends study beyond the normal two years of study is subject to the requirements of the program as published at the time of admission, or those requirements approved by the division dean, provided the student's credits which are over two years old are evaluated as current by the student's coordinator.

Graduation Petition (A Graduation Requirement)

Any matriculated student may file a graduation petition if he or she has earned and/or transferred in a combined total of seventy (70) credit hours towards an associate degree and a combined total of forty (40) credit hours towards a certificate. The petition must be filed in the Registrar's Office twenty (20) weeks prior to the date of completed course work.

Petition	Filing
Time F	

Term Degree Requirement Completed

May 21-July 9, 1986 August 13-September 17, 1986 October 22-November 24, 1986 January 9-February 10, 1987 March 18-April 21, 1987

September, 1986 November, 1986 January, 1987 April, 1987 June, 1987

Participation in Commencement

The following defines which students may participate in the September commencement ceremonies:

Students who have satisfactorily completed all requirements for a certificate or degree and have not previously participated in a CTC graduation ceremony.

*Students needing no more than nine credit hours (including co-op) who can complete all degree or certificate requirements during the September term may participate based on the following:

 Students must register and pay for all remaining courses by the close of the advance payment date and present a paid registration receipt to the Vice President for Academic Affairs

2. The Vice President for Academic Affairs approves the student's

participation

*Students in this category will be noted in the commencement program that they will complete their academic program as scheduled at the end of the September Term. Students will not, at commencement, be eligible for honors.

Graduation Honors

Students who achieve a cumulative grade point average of 3.50 or higher for five terms will graduate with honors. "Honor" awards will be designated on the degree and will be classified as follows:

Cum Laude 3.50 - 3.79
Magna Cum Laude 3.80 - 3.89
Summa Cum Laude 3.90 - 4.00

Academic Probation and Dismissal

"Academic Probation" means that a student has not maintained the required TGPA. Such a student is given a period during which he/she has the opportunity to meet the required standards or be subject to academic dismissal from the program.

A full-time student (12 credit hours or more per term) shall be on academic probation when the student's term total grade point

average (TGPA) is 1.0 or below.

A student shall be on academic probation when the student's total grade point average falls below the average listed for the following designated levels:

Credit	Total Credit		
Levels	Hours Attempted	TGPA*	Core GPA
melbo k	18 through 35	1.75	**N.A.
well to be	36 through 53	2.00	2.00
III o	54 through 71	2.00	2.00
IV	72 and over	2.00	2.00

*Non-degree credit hours will not be calculated in the TGPA.

**Note: The core GPA is not considered at credit level I.

A student not maintaining the above cumulative averages will be placed on academic probation. Each student placed on academic probation will be officially notified in writing of this status and be given an opportunity to respond to the notification.

A student designated as on academic probation is subject to the following:

 the student may not enroll for more than twelve (12) credit hours or four (4) courses without the permission of the student's program coordinator/faculty advisor.

 the student may not be eligible to enroll for cooperative education or clinical experience/directed practice without

the permission of the program coordinator.

 a student placed on academic probation will be subject to academic dismissal from the program if the student does not attain the appropriate GPA upon entering the next credit level. The student is then notified by letter of pending dismissal from the program and given an opportunity to arrange for a student hearing to request an extension of the probationary period.

Reinstatement Following Academic Dismissal

A student academically dismissed from a program will be eligible to apply for reinstatement one calendar year after the date on the letter of academic dismissal. In order to be reinstated into the program from which the student was dismissed, a student

must submit a request in written form to the appropriate division dean. Final permission will be decided by the division dean.

Academic Appeals Procedure

A procedure allowing a student to appeal academic decisions is on file in the Office of the Vice President for Academic Affairs.

Grades and Credit Earned

Grading System

The following system is used to record student achievement or status in each subject:

Grade	Quality	Points Per Credit Hour
A	.Excellent	
В	.Good	
C	.Average	
D	.Poor	
F	.Failing	
1	.Incomplete	Not Computed
IP	.In Progress	Not Computed
٧	.Withdrawal (Unofficial)	
W	.Withdrawal (Official)	Not Computed
X	.Audit	Not Computed
K	.Transfer Credit	Not Computed
	.Satisfactory	
	.Unsatisfactory	
	.No Grade Reported	
	.Advanced Placement Program	
	.CLEP Credit	
	.CTC Proficiency Examination	
	.Work Experience Credit	
VO	.Vocational Teacher Referral C	CreditNot Computed

If a course is repeated, only the highest grade is computed in the calculation of the TGPA. If a student earns the same grade upon repeating a course, only one grade will be computed in the calculation of the TGPA.

Incomplete (I) an almost and as the total and the A

When circumstances beyond the control of the student prevent the completion of course requirements during the quarter, an "I" (Incomplete) is recorded until the final grade is established. An "I" can be assigned only when a student makes arrangements for subsequently fulfilling the course requirements with the instructor prior to the end of the term. The work must be completed by Friday of the fifth week of the following term in which the grade of "I" was assigned. Otherwise, a final grade of "F" is automatically recorded.

In Progress (IP)

An instructor of a self-paced course may assign a grade of "IP" (In Progress) to a student who has been unable to complete all of the modules within the normal ten weeks. The student will then be allowed until the last day of the following term to complete the course. Students should not register for the same course during the following term. If the "IP" is not removed within the additional term, a grade of "F" will be recorded.

No Grade Reported (N)

An "N" grade is administratively assigned in those instances in which no final grades have been reported for the courses to the Registrar's Office.

Course Withdrawal (W)

A student desiring to withdraw from a course may do so at any time up to the last two weeks of classes of a term and will receive a grade of "W" for the course. The student must complete a drop/add form in the Registrar's Office. The date of the withdrawal will be the time/date stamped in the Registrar's Office. A grade of "F" or "V" may be assigned as the final grade in a course if a student discontinues attendance without officially dropping the course.

nion skills and 9 in the social sciences. The commu (X) tibuA

A student must initiate and inform the Registrar's Office in writing that he or she is taking a class for audit.

A student who audits a course should understand that the course is for information purposes only and that no college credit may be earned or later claimed for the course audited. Class attendance, completing assignments, taking exams, etc. are the prerogatives of the student in an audit course. Regular tuition is charged for audit registration.

A student may not request a transfer from "credit" to "audit" or vice versa, after completion of the second week of the academic term.

Transfer of Credit (K)

(A minimum of 50 percent of the total non-co-op/non-clinical credit hours required by the program curriculum must be earned at Cincinnati Technical College.)

A matriculated student desiring transfer of credit from other colleges must request any colleges previously attended to forward directly to the Director of Admissions a transcript of academic record and the college catalog. Courses equivalent to those at Cincinnati Technical College in which the student has received a grade of "C" or better will be considered for credit provided they were earned at an accredited institution of post-secondary education listed by the American Council of Education and if they are evaluated as current by the student's coordinator/faculty advisor.

A matriculated student should apply for credit transfer with the program coordinator before the end of the first term at Cincinnati Technical College. If transfer credit is to be applied to the first term, the student must make the request to the coordinator before the end of the first week of the term. After the CTC Transfer of Credit Form is completed and is approved by the division dean, the student will receive a copy of the approved credits.

Advanced Standing Credit

(A minimum of 50 percent of the total non-co-op/non-clinical credit hours required by the program curriculum must be earned at Cincinnati Technical College.)

Advanced standing credit may be earned in the following ways and substitutes for taking the course at CTC:

Credit Through Proficiency Examinations

External Exams (AP or CL)

Proficiency examinations are offered by national testing services such as the Advanced Placement Program (APP) of the College Entrance Examination Board and the College Level Examination Program (CLEP). Only courses which can be substituted for courses in the curriculum to be followed at CTC can be accepted. A score of "3" or better

must have been earned in each such course. No fee is charged at CTC for this service.

• CTC Exams (EC)

Proficiency examinations are offered by each of the academic divisions at CTC. Such exams may be taken prior to or after enrollment in a specific course. If a student has already enrolled in a course and wishes to take a proficiency exam to receive credit, the student can obtain a request form in the Registrar's Office and submit it to the appropriate division before the completion of the second week of the academic term. The tuition payment will cover the cost of the examination. However, if a student fails the exam and must continue the course, a \$5.00 fee will be charged.

If a student wishes to take the proficiency exam prior to enrolling in a course, the student must contact the respective division dean. A \$25 fee is charged for the examination.

 Credit Through Documented Valid Academic or Work Experience (EX)

Each academic division will evaluate written documenta-

- indicates course content and hours such as that provided by military programs, industrial programs and hospital programs, or
- provides evidence that the applicant has already demonstrated through successful work experience those skills or competencies which are the desired end-product of one or more courses the applicant would ordinarily take in the Cincinnati Technical College program curriculum.
- Credit Through Senior Vocational Teacher Referral (VO) Students who have earned an "A" or "B" in their completed high school vocational programs of Butler County Joint Vocational School, Cincinnati Public Schools, Colerain Vocational Center, Northwest Vocational Center, The Great Oaks Joint Vocational Schools, U.S. Grant Joint Vocational School and West Clermont County Career Center can earn credit for specific courses in related technical programs at Cincinnati Technical College if the senior teacher of the program submits a recommendation on the Advanced Standing Referral Form to waive such courses. Students who desire to earn credit by this means are advised to inquire about the articulation program with their coordinators. No charge is made for the courses for which credit is received.

Other Academic Policies

Registration

A student registering for the first time will receive detailed information in advance of the first term. Class scheduling, advisement and registration will take place on registration/orientation days for first term students.

An enrolled student pre-registers for classes during his or her current term in preparation for the next term and/or the alternate term if the student will be out on co-op. (Please refer to the Calendar Section in the rear of the catalog for dates of pre-registration, billing and payment due.)

The student must make or arrange tuition payments at least one week prior to the beginning of the term. A student who fails to make payments before the start of on-line registration cannot be assured of class schedules consistent with his or her planned program curriculum.

A matriculated student may be assigned to either classes or cooperative education for the first term depending on individual program requirements and the student's date of acceptance.

Late Registration

Academic—The last day to add or register for a course is the fifth day of the term for courses meeting during the day, Monday through Friday. However, students wishing to add or register for a course after the third day of the term MUST HAVE written permission of the instructor. Failure to obtain said permission would prohibit a student from registering for that particular course

The last day to register or add an evening or Saturday course shall be the fifth day of the term (or first Saturday). However, students wishing to add or register for a course after the first meeting **MUST HAVE written permission** of the instructor or the division dean responsible for the course. Failure to obtain said permission would prohibit a student from registering for that particular course.

Co-op Work Experience—The last day to add or register for co-op is the tenth working day from the start of the term.

Administrative Withdrawal

A matriculated student who fails to enroll for three (3) consecutive terms will be administratively withdrawn. In such a case, the student must reapply for admission to a program and will be subject to re-evaluation and to any change of degree requirements during his or her absence. The re-admitting process is done in the Admissions Office.

Re-Entry

Any student who registers at CTC after an absence of five (5) or more calendar years may petition to have all courses in which he or she received a grade of "D" or "F" removed from the calculation of his or her Total Grade Point Average (TGPA) and his or her core Grade Point Average (GPA). The original course grade will continue to be shown on the transcript even though it is not calculated in the TGPA or GPA. Courses which are removed from the calculation of the TGPA or the core GPA under this policy must be repeated to fulfill graduation requirements. Petitions to remove such grades must be submitted to the appropriate academic division dean. Remaining courses must be reviewed for appropriate current content as required by the academic policies of the College.

Dean's List

In recognition of academic excellence, a Dean's List is compiled each academic term. To qualify, a student must be unconditionally accepted in a program and earn an average of 3.5 or greater and completed 12 or more credit hours in that term.

Changing Technologies

Students transferring from one technology to another must secure written approval from the coordinator/faculty advisor and academic dean for acceptance into the alternate program.

Only courses which are applicable to the new program curriculum will be computed in the student's TGPA and core average.

Cooperative Education Program

The College's growth and development is due, in part, to the institution's strong commitment to cooperative education. The cooperative education experience is an integral part of the curriculums of many technologies. The cooperative education program is considered vital to the strength and continued success of

Cooperative Education Requirements

Students attending Cincinnati Technical College having a cooperative education requirement may fulfill the requirement one of three ways:

 Alternate full-time terms in the classroom with full-time terms of cooperative education employment over a ten term period.

Attending classes on a half-day schedule for ten consecutive terms while working in a half-time (or longer) position.

 Academic courses and/or previous work experience may occasionally be substituted in lieu of cooperative education experiences with prior divisional approval.

Academic Requirements

A student desiring cooperative education placement must maintain the required grade point average as stated in the College catalog (see Academic Probation and Dismissal). Students must also demonstrate satisfactory proficiency in core or other requisite courses.

A student who does not maintain the required GPA will not be eligible to enroll in cooperative education courses or clinical experiences/directed practice without the permission of the program coordinator.

See Division Section for additional rules and regulations.

Cooperative Education Experience

The College has been quite successful in placing most students in cooperative jobs; however, there is **NO ABSOLUTE GUARANTEE.** Initial cooperative employment and continued employment depends on what the individual student can offer employers.

The employer is solely responsible for decisions regarding hiring, retention, dismissal, promotion or demotion of a cooperative education student.

Cooperative Education Credit Through Documented Valid Work Experience

Valid prior work experiences may be used in lieu of cooperative education placements.

College Policies

Equal Opportunity

Cincinnati Technical College is committed to a policy of equal educational opportunities for all persons regardless of race, sex, age, handicap, or national origin. This policy is adopted as a matter of law and as a matter of educational policy consistent with the goals and purposes of the College.

The College shall also adhere to a policy of equal employment opportunity and affirmative action to end any illegal pattern of discrimination and to overcome the effects of past discrimination.

Conduct Policy

3357:4-1-98 Conduct of students, staff, faculty and visitors.

(A) Behavior contrary to civil law and/or behavior which interferes with the College's maintenance of order or its educational process is forbidden. Such behavior may result in disciplinary action including, but not limited to disciplinary probation, suspension, dismissal, expulsion, withholding of transcripts or other appropriate action.

- (B) The decision as to whether a specific kind of behavior is a violation will rest with the administration. Following are specific but not exclusive examples of behavior prohibited by this section.
 - Deliberate destruction of, damage to, malicious misuse of, or abuse of College property.
 - (2) Assault or battery upon another person while on College owned or controlled property.
 - (3) Theft of property of the College or any private individual which is physically located on College owned or controlled property.
 - (4) Forgery or alteration of any college identification card, parking permits, or records or information storage systems.
 - Plagiarism or any behavior involving academic dishonesty.
 - (6) Illegal manufacture, sale, possession, or use of alcoholic beverages, narcotics, marijuana, hypnotics, sedatives, tranquilizers, stimulants, hallucinogens or similar controlled substances.
 - Obstruction or disruption of teaching, research, administration, disciplinary procedures or other College activities.
 - (8) Participation in or organization of any demonstration, or unauthorized activity which interrupts the functions of the College or interferes with the rights of other members of the College community.
 - (9) Unauthorized entry into or use of College facilities, either buildings or grounds.
 - (10) Illegal or unauthorized possession or use of firearms, fireworks, explosives, dangerous chemicals or other weapons on College owned or controlled property.
 - (11) Deliberate disobedience of or resistence to identified College authorities acting in accordance with College policy.
- (12) Drunkenness or gambling on College owned or controlled property.
 - (13) More than three parking violations per academic term
 - (14) Disorderly conduct on College owned or controlled property.
 - (15) Sexual and other forms of harassment prohibited by state and federal law.

Effective: May 1, 1978

Promulgated under: Chapter 111.15 of the Revised Code. Rule amplifies Chapter 3345.21 of the Revised Code. Revised October, 1982.

Student Hearing

3357:4-52 Right to fact finding hearing.

- (A) When an allegation is made that a student, member of the faculty, or staff member has violated the provisions of rule 3357:4-01-98 of the Ohio Administrative Code, "Regulation of behavior of students, staff, faculty and visitors," the involved party shall be advised, in writing and shall be given an opportunity to acknowledge or deny the accusation.
- (B) When such an allegation is denied, the involved party shall be, upon written demand to the affirmative action officer, afforded the right to a fact finding hearing to determine the truth of the allegation.
- (C) Upon receipt of written demand for a fact finding hearing, the affirmative action officer for the college, or such other individual as the administration shall designate, shall notify the involved party, in writing, as to the time and place of the hearing, not to be less than five working days from the date of such notification.
- (D) Such notice shall advise the involved party of his or her right to be represented by counsel of his or her own choosing, legal or other, and shall contain a copy of the fact finding hearing procedure.

When a student is in disciplinary difficulty, a faculty/staff committee shall be convened by the Director Affirmative Action or a designate.

The student and all members of the committee shall be informed of the alleged violation and a mutually agreeable meeting time will be set. The student has a right to choose an advisor to be present at the hearing.

The committee will hear the evidence, reach a decision and make appropriate recommendations to the appropriate Vice President who will then make a final recommendation. The student has the right to appeal the decision within three (3) working days to the President.

Student Grievance Procedures

Cincinnati Technical College has established grievance procedures to address the rights of students. A complete copy of the procedures can be obtained from the Office of Affirmative Action:

Ms. Eleanor Bonner, Director
Affirmative Action and Human Resources
Room 139

Grievance Procedure

Step 1—The employee discusses the grievance with his or her immediate supervisor(s). The student should discuss problems with his/her instructor or faculty advisor at this step.

Step 2—If the problem is not resolved at Step 1, a written grievance statement should be submitted to the Director of Affirmative Action and Human Resources. A Grievance Response form with a copy of the grievance statement shall be forwarded to the person against whom the complaint is made.

The Affirmative Action Officer will then schedule a meeting within five (5) days with both parties to seek an equitable resolution. This meeting will be chaired by a chief officer of the division or a designee who shall also respond in writing to the grievant.

Step 3—If the complaint is not resolved at Step 2, the grievant may request a fact-finding hearing under the provisions of 3357:4-52.

Sexual Harassment

Cincinnati Technical College affirms its commitment to ensuring an environment for all employees and students which is fair, humane and respectful—an environment which supports and rewards employee and student performance on the basis of relevant considerations such as ability and effort. Behaviors which inappropriately assert sexuality as relevant to employee or student performance are damaging to this environment.

Title VII of the Civil Rights Act of 1969 and Title IX of the Educational Amendments of 1972 as interpreted by Federal Regulation prohibit sexual harassment.

Definition

Sexual favors may not be required explicitly or implicitly as a term or condition of an individual's employment or student status. The submission to or rejection of sexual favors may not be used as a basis for employment of educational decisions. Sexual conduct which has the purpose or effect of unnecessarily interfering with an individual's work or student performance or creating an intimidating, hostile or offensive working or educational environment is prohibited.

Such conduct may include:

- verbal harassment or abuse
- subtle pressure for sexual activity
- sexist remarks about a woman's or man's clothing, body, or sexual activities
- unnecessary touching, patting, or pinching
- leering or ogling of a woman's or man's body
- constant brushing against a woman's or man's body
- demanding sexual favors accompanied by implied or overt threats concerning one's job, grades, letters of recommendation, etc.
- physical assault

Scheduling of Classes

Classes are scheduled during the week between 7:00 a.m. and 10:00 p.m. On occasion, classes may be held on Saturday and Sunday.

In the event of adverse weather conditions, it may be necessary to announce a delayed schedule for the day. **The College will rarely close completely.**

Local radio and TV stations will begin announcing CTC's operating status no later than 6:15 a.m. on the day involved.

If an announcement is made that CTC will be operating on a delayed basis, the following will be in effect for daytime courses:

CJ.	
NORMAL TIME	DELAYED TIME
7:00 - 7:50	8:00 - 8:50
8:00 - 8:50	9:00 - 9:50
9:00 - 9:50	10:00 - 10:50
10:00 - 10:50	11:00 - 11:50
11:00 - 11:50	12:00 - 12:50
12:00 - 12:50	1:00 - 1:50
1:00 - 1:50	2:00 - 2:50
2:00 - 2:50	3:00 - 3:50
3:00 - 3:50	4:00 - 4:50

The status of evening classes will be handled by a separate announcement.

Absences

Each student is expected to attend all classes as scheduled.

On cooperative education and clinical placements the employer or supervisor may have specific guidelines regarding absences, which the student must follow.

Make-Up

The privilege of making up missed assignments, quizzes, tests, exams, etc. is not automatic.

An instructor does not have to permit or grant make-up privileges.

Grade Reports

It is the student's responsibility to check his or her grade report for accuracy. Any errors/discrepancies should be reported to his or her coordinator/faculty advisor; any omissions should be reported to the Registrar's Office. Concerns of students should be made within 30 days of the end of the term for which the grade report was issued.

Transcripts

Upon completion of a Request for Transcript Form, obtainable in the Registrar's Office, an official transcript of a student's academic record will be forwarded to any employer or educational institution as designated by the student.

The first transcript is free, each additional transcript is \$3.00. Please allow five working days for processing transcripts.

Faculty Office Hours

All College faculty maintain office hours. Students should check with each instructor, or the secretary in the instructor's office area, for appointments.

I.D. Cards

Each student is required to obtain a card showing identity as a student of Cincinnati Technical College. The card is extremely valuable and should be carried at all times. It may be used for admission to certain social functions, the library, pool, gymna-

sium, voting in campus elections, anything dealing with the Consortium of Colleges and also many other purposes which may be designated by the administration, or various other departments or organizations. I.D. cards are not transferable and are to be presented to any College official upon request. The cost of the card is \$1.00

Release of Information

A student's record contains information which is classified as confidential or public. At CTC, the following data are considered public information but the College may exercise its discretion regarding the release of any information.

- 1. Name
- 2. Address
- 3. Birthday (verify only)
- 4. Honors/Deans List
- 5. Technology/Division
- 6. Co-op Employer
- 7. Current Course Schedule
- 8. Full or Part Time Status

- 9. Parents' Name and Address
- 10. Dates of Attendance vid house and line applications
- 11. Telephone Number

Public information will be used for releases to newspapers, television and radio.

All other information is confidential and will be released only upon the receipt of written permission from the student for legitimate College purposes, or as otherwise required by law

Photographs and/or films of students for promotional and recruitment purposes are taken throughout the school year. Students who do not wish to be included in these visuals must inform the Director of Public Information prior to photographing and/or filming.

Personal Telephone Messages

Personal telephone messages can be accepted only in the event of an extreme emergency. Students are asked to advise their parents and friends of this restriction. Office telephones are provided for College business only. Public telephones are located in the main lobby, student activity center and cafeteria.

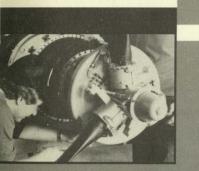


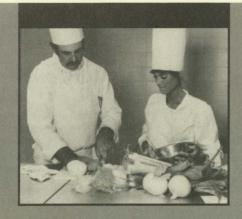


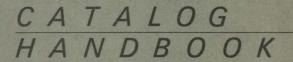










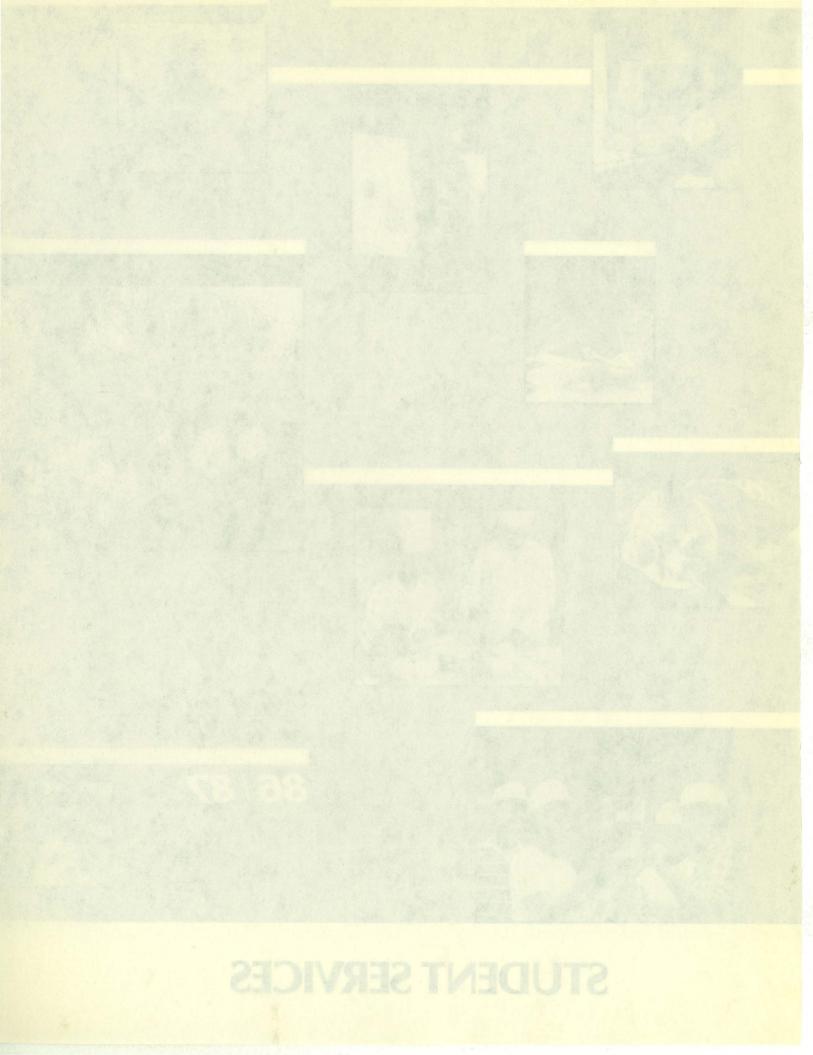








STUDENT SERVICES



Student Services

As a service to students and to the community, Cincinnati Technical College maintains a staff of professional counselors to assist students in making intelligent decisions regarding their career, educational and personal-social plans. Special services provided by the Student Services staff include counseling, financial aids and veterans affairs.

Counseling

The Office of Counseling Services maintains a professional staff to assist students. All sessions are confidential and free of charge to all students.

The following services are provided by the counseling staff:

Counseling—counsel students regarding personal, social, or

academic problems or concerns.

Career Counseling—help students and potential students with career decisions and concerns through testing, individual conferences and/or career development course work

Admissions Advising—advise students regarding general admissions; assisting students in choosing programs; and refer students to program coordinators.

Educational Transfer Counseling—assist students interested in continuing their education at other colleges or universities.

International Students-provide admissions, immigration and naturalization assistance.

Special Assistance—provide assistance to students with handicaps or special needs, and students in special programs, i.e., Job Corps and JTPA.

Information—provide students with information regarding College policies, health insurance, housing, etc.

If a situation develops which the staff feels unprepared to handle, the student will be referred to an appropriate professional.

The Office of Counseling Services is located in room 157. Office hours are 8:00 a.m. to 8:00 p.m. Monday through Thursday, until 5:00 p.m. on Friday, and Saturday by appointment.

Living Accommodations

CTC has no student housing facilities of its own as it is primarily a "commuter" institution. However, for individuals living too far from the College to commute, reputable, efficiently-operated living accommodations are available at reasonable costs. For information concerning housing facilities, contact the Office of Admissions and Counseling.

Veterans

Cincinnati Technical College has a Veterans' Affairs Coordinator to aid persons attending school on V.A. benefits. The Veterans' Affairs personnel will help students with official paperwork and information regarding benefits. All degree programs at Cincinnati Technical College are fully approved by the State Approving Agency for Veterans Training. Upon being accepted by CTC, veterans should contact the Veterans Office for full information concerning application for Veterans' Educational Benefits.

Tutorial services can be arranged for veterans in need of academic assistance. The Veterans Administration will reimburse the veteran for this cost. Fair and reasonable charges for this service will be determined by the Coordinator of Veterans' Affairs prior to approval of tutorial assistance.

Whenever possible, a student tutor will be utilized. However, when there is not a qualified student tutor available, the Veterans' Affairs personnel will attempt to find a qualified faculty tutor. Please contact the Veterans Office for further information.

The State Approving Agency for Veterans Training has approved Cincinnati Technical College for the education and training of veterans under the 1966 GI Bill and orphans of veterans under Public Law 634 and 88-361.

Financial Aid

The purpose of Cincinnati Technical College's financial aid award is to provide financial assistance to those qualified students who, without such aid, would be unable to attend college.

Financial aid is the assistance available to help students meet the difference between what they can afford to pay and what it actually costs to attend school.

All students must be fully accepted into the College before financial aid can be awarded.

The Award Year

The financial aid award year begins with the June Term and extends through the April Term.

Students are notified of their aid award via the Award Notification Letter. If the student accepts the aid award, the Award Letter must be signed and submitted to the Financial Aid Office within two weeks of receipt.

Procedures for Applying for Financial Aid include—

- a. Apply for admission to Cincinnati Technical College
- b. File an institutional application for financial aid
- File a Financial Aid Form (FAF)
- d. Ohio residents file an application with Ohio Board of Regents for an Ohio Instructional Grant

Deadlines-All applications for financial aid should be completed by March 15 to receive full consideration for all forms of financial aid. Applications completed after March should not expect consideration for campus-based funds.

Pell Grant—The Pell Grant is available to full-time and half-time undergraduate students. It is a grant that does not have to be repaid. The amount of the grant varies for each student.

Supplemental Educational Opportunity Grant (SEOG)—The SEOG program is for students of exceptional financial need who, without the grant, would be unable to continue their education. The Supplemental Educational Opportunity Grant cannot be less than \$200 a year.

National Direct Student Loan (NDSL)—The NDSL is for students who are enrolled at least half-time and who need a loan to meet their education expenses.

Money advanced under the NDSL Program represents federal funds in the form of a LOAN, and must be repaid in accordance with the terms of the NDSL Promissory Note. The rate of interest charged on the loan will be five percent (5%) and repayment period will begin six (6) months after the student leaves the College.

College Work-Study—The purpose of Cincinnati Technical College's federally-funded College Work-Study program is to provide meaningful employment to any eligible student as part of a financial aid package to help defray educational expenses and to serve as an educational tool to increase the student's job skills and enhance career opportunities.

Cincinnati Technical College arranges jobs on-campus and offcampus with a public or non-profit agency.

In arranging a job and determining how many hours a week a student may work, these things are taken into account: (1) need (2) class schedule and academic progress. Students are paid at least minimum wage.

CWS students may not work more than forty hours per week.

Guaranteed Student Loan Program/Federally Insured Student Loan-The GSL, or FISL enables the student to borrow directly from a bank, credit union, savings and loan association, or other participating lender who is willing to make the educational loan. The loan is guaranteed by a state or private non-profit agency, or insured by the federal government.

The maximum a dependent student may borrow as an undergraduate is \$2,500 a year. An independent student may borrow \$3000 a year. The interest for new borrowers is eight percent (8%).

The loan must be repaid. Payments normally begin six months after graduation or withdrawal from school.

Other Financial Aid Programs

Ohio Instructional Grant (OIG)—The OIG is a state grant program which can only be used for tuition and fees. Students must apply to the Ohio Board of Regents, and carry a minimum of 12 credit hours to receive an OIG grant.

State of Ohio Scholarship Programs

Ohio Academic Scholarship Program—This program is funded by the State of Ohio to assist undergraduate students who exhibit exceptional academic ability. High school students who are residents of Ohio and who plan to attend an approved Ohio institution of high learning on a full-time basis (twelve credits or more per term) may apply. Recipients are chosen by the Board of Regents on the basis of grade point average and performance on a competitive examination. These scholarships are awarded in the amount of \$1000 per year for four years of undergraduate

Ohio War Orphans Scholarship—This program is funded by the State of Ohio to aid dependents of veterans of the armed services who died or were disabled during their period of service. Applicants must be residents of the State of Ohio who are enrolled fulltime (twelve credits or more per term) as undergraduate students. Eligibility is determined by the Board of Regents on the basis of need. Awards cover the cost of instructional and general fees for four years of study. More detailed information and applications are available from the Ohio Board of Regents

National Guard Scholarship Program—This program is funded by the State of Ohio to assist persons who enlist in the Ohio National Guard after September 1, 1977 for at least six years. Awards are determined by the Board of Regents and cover the cost of instructional and general fees. Eligible guardsmen should contact the Adjutant General's office to apply for this program.

Institutional Aid Programs

Cincinnati Technical College aid programs include academic and need-based scholarships and emergency student loans and grants.

CTC Scholarship Program—In 1980, the CTC Scholarship program was established by the Office of Resource Development. The purpose of the program is to acknowledge and reward high academic achievement by helping deserving students remove some of the financial barriers they face while pursuing technical education. CTC awards both academic and need-based scholarships. Eligibility requirements include:

1. Applicants must meet priority deadline of April 1;

2. Applicants must be U.S. citizens;

3. Applicants must be fully accepted and matriculated into a

certificate or degree program;

4. Applicants must be ranked in the upper 20 percent of their high school graduating classes and/or have a minimum GPA of 3.0 on a 4.0 scale or have earned a minimum of 12 credit hours at CTC with a minimum of 3.0 TGPA and 3.0 core average if

5. Need-based applicants must have on file in the Financial Aid Office a CTC Financial Aid Application and a completed

Confidential Financial Statement.

Application deadline is April 1, and all recipients must reapply each year.

Emergency Aid Programs—Cincinnati Technical College acknowledges the concerns and needs for additional emergency student assistance programs. It is the College's policy to attempt to assist the student body in meeting educational costs which may delay enrollment.

The Emergency Student Loan Program (CINTECH, LINKS and Avon) is designed to serve as an institutional short-term loan with emphasis on repayment within ninety (90) days. The program will provide emergency assistance for tuition, fees, books and supplies and should be administered as such. For those students who meet eligibility requirements, awards will be made upon availability of funds.

The maximum CINTECH and Avon loan amount is \$200 and the maximum LINKS loan is \$100 with repayment within ninety (90) days at a six (6) percent interest rate.

The Emergency Student Grant Program, LINKS, is an institutionally administered program drawing its funds from the contributions of the LINKS Organization. The program is designed to help students with extreme emergency financial needs. Grants awarded at a maximum of fifty dollars (\$50) and do not require

Emergency Aid Eligibility Requirements

1. Student must be a U.S. Citizen or an eligible non-citizen.

2. Student must be fully enrolled at least half-time and accepted into an eligible program.

3. Student must be making satisfactory progress as defined in

CTC's catalog.

4. Student must not be in default on an NDSL, GSL or PLUS Loan or any institutional loan.

Methods of Disbursement and Refund of Aid

The Financial Aid Office will authorize aid funds (excluding College Work-Study) to be charged to the appropriate fund control accounts by the Office of Finance and Business Affairs. This authorization takes place by the end of the fourth week of each term. The Office of Finance and Business Affairs will apply the authorization of aid to the student's institutional charges with priority first given to tuition and fees. When all institutional charges have been paid, CTC's Office of Finance and Business Affairs will disburse the remaining balance of aid (excluding College Work-Study and OIG) directly to the student. This disbursement occurs on the Friday of the fifth week of each term. It is disbursed by check and proper student identification is required by the Cashier.

Students who participate in the College Work-Study Program are paid every two weeks through the College's payroll system. Time cards must be submitted in a timely fashion. Late time cards will cause a delay in payment. Proper student identification is

required.

Cincinnati Technical College's refund policy for students withdrawing or dropping credit hours is outlined in this catalog. Federal regulations require a proportionate refund of federal student aid funds (programs sponsored by the U.S. Dept. of Education). The federal formula used to determine the portion of the fee to be refunded as applied to federal student aid is as follows:

total amount of federal student aid funds (excluding employment) awarded for the payment period

total amount of aid (excluding employment) awarded for the payment period

Cincinnati Technical College will refund back to the U.S. Dept. of Education's federal aid programs using the following priority distribution: 1) National Direct Student Loan, 2) Supplemental Educational Opportunity Grant, 3) Pell Grant and 4) Guaranteed Student Loan.

Other refund distribution priority is a follows: 1) state grants/ scholarship programs, 2) institutional scholarships and 3) emergency student loans.

Rights and Responsibilities Governing Receipt of Financial Aid

The following information is provided in compliance with federal regulations.

Student's Rights

- 1. All students have the right to know what financial aid programs are available at CTC, and the deadlines for submitting applications for each program.
- 2. Each student has the right to know how his or her need is determined (including tuition, books, fees and personal

expenses), and what resources are used in the calculation of need. If awarded, how the award has been "packaged", and how his or her aid will be distributed.

3. Each financial aid student has the right to know how much of his or her need has not been met by the College.

4. If not awarded, each student has the right to be notified by mail with the stated reason(s) for denial of aid.

5. Each financial aid student has the right to know what portion of his or her aid must be repaid, the interest rate and payback procedures, and what portion is grant aid.

6. All students have the right to know the College's refund policy and how it effects their financial aid packages.

7. All students have the right to know what the College's Satisfactory Progress policy is.

Student Responsibilities

1. All aid applicants have the responsibility of meeting application deadlines for filing, providing correct information on financial aid application forms, and returning all documentation, verification and corrections as requested by the Financial Aid Office.

2. Each student is responsible for reading, understanding and accepting responsibility for all agreements which are signed.

3. All financial aid recipients must notify the Financial Aid Office of any other resources of aid which they are receiving, including any part-time employment of income benefits.

4. All financial aid recipients must notify the Financial Aid Office of any changes as they occur, including change of full- or part-time status, technology, family circumstances, address, etc.

5. All financial aid recipients are responsible for course with-

drawal and repayment of funds if applicable.

6. All students who are awarded any type of loan are responsible for arranging pre-loan counseling, an entrance interview and an exit interview.

AID WHICH IS IN THE FORM OF A LOAN WILL NOT BE ISSUED WITHOUT THE SIGNING BY THE STUDENT OF A PROMISSORY NOTE.

7. All students who are awarded a CWS award are responsible for attending a JOB-PLACEMENT seminar, and signing a CWS work agreement.

8. All students have the responsibility of understanding and complying with the College's Standards of Satisfactory Progress.

Satisfactory Progress

All CTC students, including financial aid recipients, must maintain satisfactory academic progress as stated in the CTC catalog. In addition, financial aid recipients must carry to full successful completion 60 percent of the credits for which they have registered each term. The monitoring of satisfactory progress will be done on a term basis. Students will be notified when they fall below the minimum standards. Three consecutive terms in which the student does not meet minimum standards will result in termination of aid.

Course Withdrawals

Students who register for 12 credit hours but withdraw from courses could be liable to repay the overaward.

College Work Study

Students awarded College Work-Study must contact the Financial Aid Office regarding job placement. College Work-Study is not a grant or a loan. Students must work for the dollars awarded. Students are only permitted to work 20 hours per week while attending classes. All on-campus employment must be cleared through the Financial Aid Office. Failure to do so could result in a reduction of the award or the student's liability for overpayment of funds.

National Direct Student Loan

All National Direct Student Loan recipients must sign a promissory note in the Financial Aid Office before the loan and the award become official. Additionally, all advancements on the total loan must be signed for prior to the beginning of each term. All NDSL awards must be repaid.

Other Aid

Financial aid recipients must notify the Financial Aid Office of any other sources of aid. All employment earnings must be reported. This includes co-op earnings or other part-time employment not reported on the student's financial aid application.

Notification of Changes

All aid recipients must notify the Financial Aid Office of the following changes, as they orrur: change of term, change of credit hour load, change of technology, or change of family circumstances which may affect the recipient's eligibility. The Financial Aid Office should be notified of address changes, or change of family name (marriage) within one week of the change.

Registration

Financial aid recipients must follow the regular registration process.

Please Note: If a student defaults on unpaid tuition, the Cincinnati Technical College has the right to dismiss that student for financial deficiency and take legal action against that student and/or co-signer to satisfy the outstanding balance. If a student withdraws or leaves the College, that student and/or co-signer are still financially responsible for all unpaid tuition and fees. Furthermore, if the student fails to meet all conditions and responsibilities regarding the awarding and disbursement of financial aid, previously awarded aid may become void and the student will be held responsible for the unpaid balance of the student's tuition charges.

No degree will be granted or transcript provided until all financial obligations are completely paid.

Student Activities

Student Senate

One student and an alternate are chosen from each technology. Officers are elected by the Senate for each of the two student sections.

All CTC students are encouraged to attend Senate meetings. The Senate is involved in all student activities and acts as a liaison between students and the administration.

Athletics

The Tigers of Cincinnati Technical College are working to build a winning tradition in athletics. As members of the National Junior College Athletic Association (NJCAA), the Tigers compete in an ever-expanding intercollegiate sports program.

On the horizon at Cincinnati Tech is an expanding athletic program in both men's and women's sports. At the present time CTC offers intercollegiate men's basketball.

In basketball the Tigers are a member of Region XII of the NJCAA and the Ohio Junior College Athletic Conference and play a very competitive junior college schedule.

Along with the intercollegiate competition, Cincinnati Technical College offers an expanding intramural program. Class competi-

tion is intense in basketball, softball and volleyball. More programs will be added in the future. The gymnasium and swimming pool are open for student use each day.

VIP Association

This is a volunteer organization of students who act as hosts or hostesses, serve as tour guides, usher at Commencement and participate in a variety of activities as their schedules permit. All students with a 2.5 TGPA are eligible and can apply by contacting Miriam Carle in room 156.

Student Organizations

Students are encouraged to join organizations designed for special interests. Business Technology students can apply for membership in the Office Education Association (OEA). There are others such as the Society for Manufacturing Engineers (SME), student chapter of Data Processing Management Association (DPMA), student chapter of the Les Chefs De La Cuisine, Ornamental Horticulture Club, Greater Cincinnati Restaurant Association Student Auxiliary, and the Junior Litho Club. For additional information check with the Student Senate Office or program coordinator.

Alumni Association

The students at Cincinnati Tech have always displayed a special type of loyalty and support.

Upon graduation, many continue to support the school's philosophy of cooperative career education and the traditions established in CTC's brief history.

Following the school's fourth graduating class, the graduates of CTC formed the Cincinnati Technical College Alumni Association in early 1972. The association was organized to promote the general welfare of the College and to create and maintain an active interest among the alumni in extending the influence of the College. The association also provides a means of perpetuating friendships among alumni and in the future will aid the College in providing facilities to meet the educational needs of society.

Facilities

Use of College Facilities

Students presenting College I.D. cards may use such facilities as the gymnasium, natatorium, weight room, library, student center, meeting rooms, etc. Such use is restricted to hours set aside for student use for free time recreation. These hours will not conflict with previously scheduled events, and may be subject to change because of short term scheduling of intramurals, athletics, community use, etc.

Students or student groups may lease on-campus facilities through the Office of the Director of Student Activities.

Learning Resource Center

The Learning Resource Center includes the Johnnie Mae Berry Library and the Instructional Media Center. The LRC is open from 7:30 a.m. to 9:30 p.m. Monday through Thursday and from 7:30 a.m. to 4:30 p.m. Fridays. The spacious new three-level LRC is both functional and attractive.

Johnnie Mae Berry Library

The Johnnie Mae Berry Library, named for CTC's first librarian, contains a growing collection of books and periodicals in various technologies as well as in general areas. A courteous and friendly

staff is available for assistance at all times to assist in finding information.

The library includes a computer terminal room, group study rooms, a typing area, carrels equipped for audio-visual equipment and carrels and tables for quiet study.

All students enrolled in the Cincinnati Technical College are encouraged to use the Learning Resource Center. Please observe the following rules and regulations:

Quiet Zones—An atmosphere of quietness conducive to good study habits shall prevail.

Group Study—Students who wish to study together must use the rooms set aside for group study.

Smoking, Eating & Drinking—Smoking is not permitted. Neither food nor drink may be brought into the Center.

Inspection—Upon leaving, all bags, briefcases and parcels are subject to inspection.

Proper Charging—No books may be taken from the LRC without being charged out and signed for at the Circulation Desk.

Overdues—Fines—No books will be issued to students who repeatedly keep books overtime. A fine of \$.10 per day is charged for each circulation book kept overtime. Reserve books are charged ten cents an hour if not returned by 8:00 a.m. the following morning on school days.

Lost Books—Lost or damaged books must be paid for by the borrower. A \$5.00 processing fee will be added to the cost.

Circulation Policies and Procedures

To Borrow a Book—To borrow a book a student presents his or her I.D. card. The Librarian or Assistant will stamp the DUE DATE on the card beside the borrower's signature and on the book's DATE DUE SLIP letting the student know when the book is to be returned.

Length of Loan—Circulating Books may be kept three weeks. They may be renewed if there are no requests for them.

Reserve Books circulate according to faculty members' instructions who place them on reserve. **Overnight Reserve Books** which are used during the day may be checked out after 3 p.m. and must be returned by 8 a.m. the following school day.

Restricted Materials—Closed Reserve Books, Periodicals, and Reference Books may not be charged out and may be used only in the LRC.

Return of Books—Library books must be returned to the Circulation Desk by the borrower on or before the DATE DUE. Each borrower is responsible for all books signed out.

Book Depository—The Book Drop is located to the right of the Main Entrance. It is to be used for book returns when the Learning Resource Center is CLOSED.

Instructional Media Center

The Instructional Media center provides audio-visual support for faculty, students and administrative staff. Students have access to various forms of audio-visual materials such as audio tapes, slides, filmstrips, videotapes, etc. The materials are to be used with the appropriate piece of equipment within the LRC. Materials may be borrowed at the charging counter of the Media Services area.

Student Bookstore

The bookstore is located on the first floor of Wing C. A complete supply of new texts and a limited supply of used books are available covering all the courses offered at the College. The store also carries a complete line of classroom supplies, calculators, various tools used in labs, etc.

Used books are purchased by the bookstore during the two week period prior to the start of each new academic term.

Books for which an exchange or refund is requested must be accompanied by the original receipt and presented to the College bookstore within one week after the beginning day of each term.

If a student drops a course and wishes a refund within the established time frame, the student must show the bookstore personnel a copy of the drop/add form. Only books on approved technology booklists can be returned as used books and refunded accordingly.

Regular hours of the Bookstore are 9:30 a.m. to 4:00 p.m. Monday through Friday. During registration periods hours are extended.

Dining Facilities

The College's new cafeteria offers a wide selection of vending machines, drinks, foods, hot and cold—also a microwave oven. This area is open from 6:30 a.m. to 10:00 p.m. daily.

The cafeteria is operated by Canteen, Inc.

Gymnasium

The gymnasium is open to "free play" from 8:00 a.m. to 5:00 p.m. Monday through Friday. Facilities available include volleyball, basketball, tumbling mats, footballs, soccer balls, and softball equipment. I.D.'s are required to acquire equipment.

Pool

The pool is open for free swimming Monday through Friday from 10:30 a.m. to 5:30 p.m.

Activities Center

This area features a game room with pool tables, ping pong, foose ball, pin ball, card tables, etc., a snack and lounge area. I.D.'s are required to use this facility. Hours—8:00 a.m. to 4:30 p.m. & 5:30 p.m. to 8:30 p.m.

Activities Center, Pool, Gym Rules

- Students using the center must have their CTC I.D. card and Drivers License and show them upon request
- Food and drink will not be allowed in the gym, exercise room or pool.
- 3. No smoking allowed in the gym, exercise room or pool.
- 4. No street clothes allowed in pool area.
- 5. No swimming suits allowed in other activities areas.
- Students must present I.D. to lifeguard while using pool area.
- Please place all cigarettes in ashtrays and all trash in trash containers.
- 8. I.D.'s must be presented to use equipment.
- 9. Loud or disruptive behavior will not be tolerated.
- 10. All students are encouraged to shower after activity.
- 11. Gym shoes must be worn when using the gymnasium. (Street shoes with soft soles are not permissible.)
- 12. It is recommended that gym clothes be worn when using the gymnasium.

Facilities for the Handicapped

The College has renovated areas to make its facilities more accessible to handicapped students. Outdoor and indoor ramps, elevators and specially designed restroom facilities are available to assist any physically disabled person.

Lockers

The College has lockers available for use by students. Students must provide their own locks. CTC assumes no responsibility for any loss, theft or damage to lockers, locks or contents due to fire, trespassers, etc. Each year, at the end of the April Term, students

must remove locks and contents from their lockers so that general cleaning and maintenance can be performed.

Parking & Traffic Regulations

CTC provides on campus parking for students on a first come, first served basis. All vehicles parking on school premises must be registered and display a decal on the lower left side of the windshield. The parking plans and rates are as follows:

1. The Term Reserved Space Plan (TRS)

This plan permits a student to park in any of the four areas marked in yellow lines on campus. The TRS plan can be purchased for \$25 per term. Those areas open to the TRS parking plan are the lower lot, some hilltop spaces, the gravel lot and front and back drive.

2. The Registered Vehicle Plan (RVP)

This plan permits a student to park in the stadium parking lot. The fee for this plan is \$7 plus 50¢ per day.

3. The Registered Vehicle (RVM)(Motorcycle)

The RVM plan permits students to park motorcycles on campus. Students must park motorcycles in the areas specifically marked. The fee for this plan is \$10 per term.

4. Upper lot parking for night school will be 50¢ per car, per night, if paid at the guard house or a parking card can be purchased for \$5 when a student registers. This card entitles the student to park for 13 nights. These cards will be punched upon entry by the gate attendant.

Stadium parking for night school is 50¢ per car, per night, or students can purchase a \$4 coupon book good for ten parking privileges.

Traffic Regulations

Traffic Regulations will be strictly enforced. Violators will face monetary fines and possible loss of parking privileges and/or transcript withheld until fines are paid; also prevention from purchasing on-campus parking for future terms.

The following policies and procedures will be in effect on the first day of classes and will apply to all person driving vehicles on to campus

- One-way traffic is in effect up the entire front drive around A & B wings, and down the back exit drive.
- One-way traffic is also in effect across the front of the building going north around the back of F & G wings, (across from the gravel lot) continuing around the rear of the building and down the exit drive.
- Only those students with current parking decals will be able to bring their vehicles on campus.

Parking regulations will be strictly enforced. Violators face monetary fines and possible loss of parking privileges and/or tow away for chronic offenders.

The following are violations and the fines that accompany them:

Parking

I WI KIND	
1. Cross walk	\$ 3.00
2. Blocking Driveway	5.00
3. Parking in or blocking fire lane	10.00
4. Overtime parking, limited parking area	2.00
Disregarding posted signs: no stopping,	
no parking, loading, tow away zone	5.00
6. Parking in a manner to use two stalls	5.00
7. Parking disregarding painted curbs	3.00
8. Parking outside permitted decal areas	3.00
9. Parking in reserved area(s)	5.00
Mantag	

Moving

10. Wrong direction on one-way street 15.00

Other or permit. Using stolen or revoked permit or decal Cost 5.00

Other

11. No parking permit (decal) or not displayed 5.00 5.00 Cost 10.00 15. Reproducing, altering or defacing parking decal

Failure to pay fines will result in the holding of transcripts until such fines are paid; also prevention from purchasing on-campus parking for future terms.

LOCK YOUR CAR

Cincinnati Technical College assumes no responsibility for any loss or theft of any automobile or any part thereof; or for any article left therein; or for any damage which may be caused by fire, trespassers, collision, etc.

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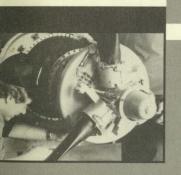


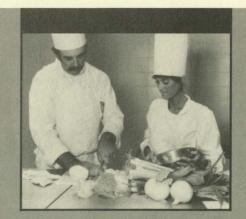


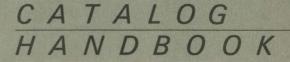










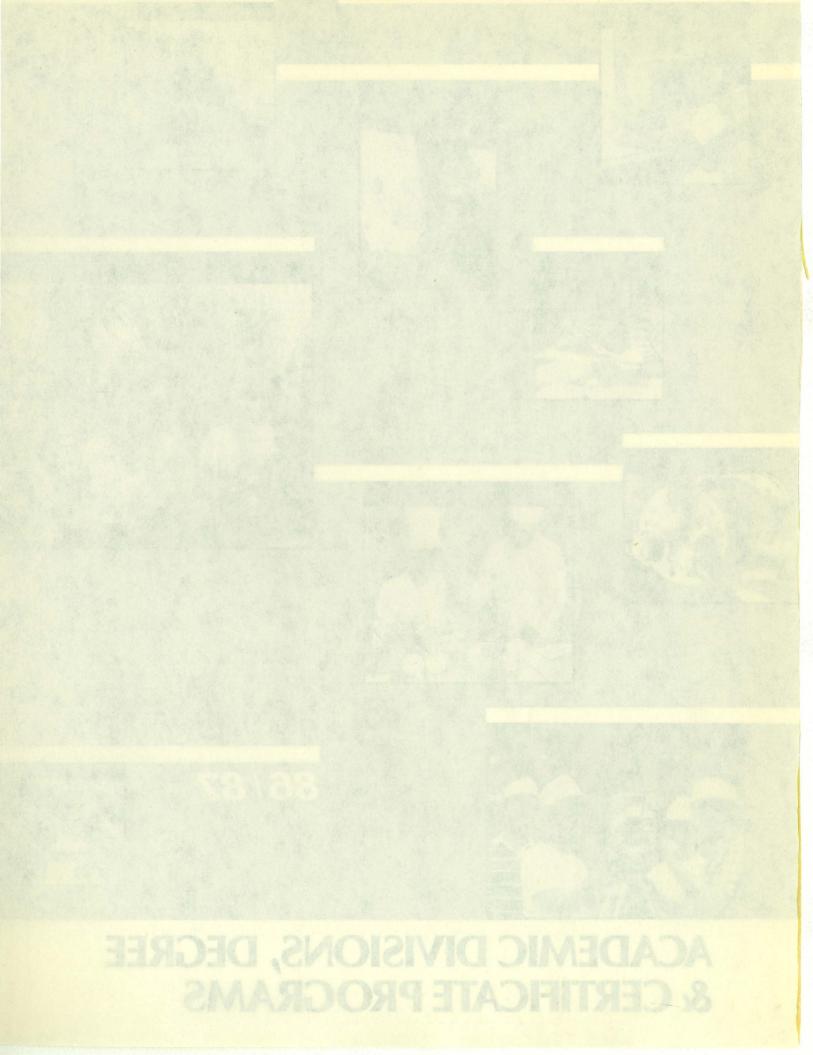


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ACADEMIC DIVISIONS, DEGREE & CERTIFICATE PROGRAMS



Academic Divisions

Cincinnati Technical College has six acedemic divisions and departments which offer credit courses: Health Technologies, Business Technologies, Communication Skills/Social Sciences, Developmental Education, Engineering Technologies and Physical Science/Mathematics.

Communication Skills/ Social Sciences Division

Philosophy of Communication Skills

The Communication Skills Division recognizes that each individual is a unique combination of attitudes, beliefs, values and experiences. Sharing this uniqueness with others is a basic need; however, individual differences can cause barriers to communication. Therefore, the Division offers students a proven process with identifiable stages: 1) planning the message, 2) the initial verbalizing of the message and 3) refining techniques to produce a final written or oral presentation of the message. This process will enable each student to break down the barriers to communicate more effectively with others.

Goals of Communication Skills

Students will be able to:

- 1. Understand the elements of problem solving.
- 2. Employ various research techniques including the development of a thesis.
- 3. Distinguish between logical and fallacious arguments.
- 4. Understand written and oral communications.
- 5. Analyze the audience for a communication.
- 6. Write various types of business and technical communica-
- Present information and technical material in a clear, organized speech.
- 8. Use clear, concise language at the level acceptable in business, industry and health professions.

Philosophy of the Social Sciences

Cincinnati Technical College has as its mission the provision of quality technical education. In order to function successfully on the job, technicians must have both a practical knowledge of their fields and a grasp of the framework within which they work. Essentially, it is the "social world" that forms the framework with which technical skills develop and are applied. Each of the social sciences provides a distinctive perspective of this framework. The social sciences allow the students to see the relationship of their technical skills to industry, community and country, thus making for both a more productive worker and a more contented person.

Goals of Social Sciences

Students will be able to:

- Understand the basic conceptual framework of the social sciences.
- Develop the relationship between the individual and the social/psychological processes so that each student can see his or her role within the ever present-social/psychological networks.
- Grasp the analytical and methodological tools necessary to either control or adapt to changes in a social/psychological environment.

The Writing Center

Individualized Courses—Currently, Communication Skills courses 1002, 1009, 1010 and 1011 are also offered on an individualized basis. Individualized courses being offered each term are designated by the letters IND.

Other Services—Instructors of Communication Skills staff the Writing Center to provide all students with help they need in any writing or other communication problems. Students can usually be accommodated on a "drop-in" basis or may request an appointment. For students uncertain of their communication skills level, assessment is available.

The Writing Center Hotline (559-1520, extension 133) answers questions about business communications, technical writing, grammar, punctuation, spelling, capitalization and word usage. The hours are 9:00 a.m. to 4:00 p.m., Monday through Friday.

Requirements

To qualify for the associate degree, a student must complete at least 21 credit hours; 12 must be in communication skills and 9 in social sciences. The communication skills requirement consists of 6 credit hours in written composition, 3 credit hours in technical writing or business communications, and 3 credit hours in oral communication. To complete the minimum requirements in the social sciences, a student will select a minimum of three courses (9 credit hours) from at least two of the four areas: psychology, economics, sociology and community relations. The following is a list of the courses which constitute each of the areas:

Communication Skills

Composition:

1001 English Composition I

1002 English Composition II

1007 Research and Argumentative Writing

1009 Business English

Technical Writing and Business Communications:

1010 Technical Writing

1011 Business Communications

1015 Technical Writing II

1017 Project Research

1018 Writing the Project Copy I

Oral Communication:

1020 Effective Speaking

1024 Group Dynamics and Problem Solving

Composition Classes Using Microcomputers

Some sections of selected composition classes are offered in a microcomputer lab. These classes contain the same material as other composition classes but allow students to compose and revise their assignments using word processing. Students interested in taking such a class are advised to have keyboarding skills and prior microcomputer experiences. A lab fee is charged in these classes.

Social Sciences

Psychology:

1502 Human Relations - Applied Psychology

1505 Introduction to Psychology: Internal World

1506 Introduction to Psychology: External World

1507 The Psychology of Color

1508 Child Psychology

1509 Psychology of Human Development -Adolescence through Aging

Economics:

1512 Micro Economics

1513 Macro Economics

Sociology:

1521 Introduction to Sociology

1523 Social Institutions

1524 Stress Management

1525 Changing Roles for Men and Women

Community Relations:

1531 Introduction to Political Science

1535 Introduction to Labor Management Relations

1539 Public Policy and the American Worker

New Associate Degree Program Technical Writing & Editing Technology (TWET)

Technical communication is the work performed by technical writers, editors, and illustrators who put scientific or technical information into readily understandable language for a specific audience. Technical writers and editors combine their language skills with their technical knowledge so they can prepare materials which meet the needs of technical specialists as well as average consumers. Technical communication is the language of high technology. In our society, where understanding technical information is increasingly important to our everyday lives, technical writers and editors play a vital role.

The Technical Writing & Editing Technology program was created after extensive research and feedback from professional technical communicators. The core courses help students master the writing and editing skills required to enter the profession. In addition, students gain technical competence by earning at least 26 credit hours in a technical specialty area. These technical specialty courses may be from any of the other technologies offered at Cincinnati Technical College.

The Technical Writing & Editing Technology program is in the process of establishing a formal articulation agreement with the Florida Institute of Technology. This agreement will enable graduates who choose to continue their studies to apply all their credits toward a Bachelor of Science degree in Technical Communication.

Technical Writing and Editing Technology Curriculum

		Hours Per Week		Credit	
J. N. E.	A COMPA	Class	Lab	Hour	
First 7	Term				
	Technical Specialty Requirement		3	4	
1001	English Composition I	3	0	3	
3005	Administrative Typing	2	3	3	
5001	Portfolio Development	1	2	2	
*XXXX	Technical Specialty Requirement		3	4	
		12 10 12 0	11	16	
es Ish	These classes contain the same matel	Cole let	Martio	2000	
Seco	nd Term of amabuta wolls and assess				
XXXX	Technical Specialty Requirement	3	3	4	
1017	Project Research	3	3	4	
1018	Writing the Project Copy I	2	5	4	
1401	Layout & Design	3	0	3	
3061	Word/Information Processing I	1	4	3	
		12	15	18	
			golori	Psyc	
Third	Term Vgoled Psychology A - anold				
9701	Co-Op Employment TWET Technology .	roito1 be	40	3	
Equat	h Term	noiteathe	a Ludge	1021	
	Technical Specialty Requirement	2	3	4	
	Micro Economics		0	3	
3063	Word/Information Processing II	vygo pno	4	3	
	Planning the Illustration	dojob	2	3	
	Project Organization		3	3	
30 10			- VIETO	-	
		nonolla o	12	16	
Eifth.	Form	ionunt o	Mace	FIEL	
Fifth		noncos Lo	40		
	Term Co-Op Employment TWET Technology .	1 1	40	3	
9702	Co-Op Employment TWET Technology .	1 duction i	40	3	
9702 Sixth	Co-Op Employment TWET Technology .	1 i norroub	40	3	

Seventh Term 9703 Co-Op Employment TWET Technology 1 40 3 Eighth Term *xxxx Technical Specialty Requirement 3 3 4 5022 Technical Presentations 3 2 4 5033 Writing the Project Copy III 2 2 3 5042 Editing the Project Copy III 2 2 3 5051 Project Planning 3 1 3 Ninth Term 9704 Co-Op Employment TWET Technology 1 40 2 Tenth Term *xxxx Technical Specialty Requirement 3 0 3 15xx Social Science Elective 3 0 3 15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12	5032 5041	Writing the Project Copy II Editing the Project Copy I	2	5 2	4 3
# xxxx Technical Specialty Requirement 3 3 4 4 5022 Technical Presentations 3 2 4 5033 Writing the Project Copy III 2 5 4 5042 Editing the Project Copy III 2 2 3 3 1 3 13 16		CHURCHART TH	13	13	18
Eighth Term *xxxx Technical Specialty Requirement 3 3 4 5022 Technical Presentations 3 2 4 5033 Writing the Project Copy III 2 5 4 5042 Editing the Project Copy II 2 2 3 5051 Project Planning 3 1 3 13 13 16 Ninth Term 9704 Co-Op Employment TWET Technology 1 40 2 Tenth Term *xxxx Technical Specialty Requirement 3 0 3 15xx Social Science Elective 3 0 3 15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12	Sever	th Term	PECINIC	Jishni	Dail
*xxxx Technical Specialty Requirement 3 3 4 5022 Technical Presentations 3 2 4 5033 Writing the Project Copy III 2 5 4 5042 Editing the Project Copy III 2 2 3 5051 Project Planning 3 1 3 13 13 16 Ninth Term *xxxx Technical Specialty Requirement 3 0 3 15xx Social Science Elective 3 0 3 15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12	9703	Co-Op Employment TWET Technology	1	40	3
5022 Technical Presentations 3 2 4 5033 Writing the Project Copy III 2 5 4 5042 Editing the Project Copy II 2 2 3 5051 Project Planning 3 1 3 13 13 16 Ninth Term 9704 Co-Op Employment TWET Technology 1 40 2 Tenth Term *xxxx Technical Specialty Requirement 3 0 3 15xx Social Science Elective 3 0 3 15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12	Eight	ation, Engineering Technologicment	tal Educ	memb	olev
5033 Writing the Project Copy III 2 5 4 5042 Editing the Project Copy II 2 2 3 5051 Project Planning 3 1 3 13 13 16 Ninth Term 9704 Co-Op Employment TWET Technology 1 40 2 Tenth Term *xxxx Technical Specialty Requirement 3 0 3 15xx Social Science Elective 3 0 3 15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12	*xxxx	Technical Specialty Requirement	3	3	4
5042 Editing the Project Copy II 2 2 3 5051 Project Planning 3 1 3 13 13 16 Ninth Term 9704 Co-Op Employment TWET Technology 1 40 2 Tenth Term *xxxx Technical Specialty Requirement 3 0 3 15xx Social Science Elective 3 0 3 15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12	5022	Technical Presentations	3	2	4
5042 Editing the Project Copy II 2 2 3 5051 Project Planning 3 1 3 13 13 16 Ninth Term 9704 Co-Op Employment TWET Technology 1 40 2 Tenth Term *xxxx Technical Specialty Requirement 3 0 3 15xx Social Science Elective 3 0 3 15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12		Writing the Project Copy III	2	5	4
Ninth Term 3 1 3 16 Ninth Term 9704 Co-Op Employment TWET Technology 1 40 2 Tenth Term **xxxx Technical Specialty Requirement 3 0 3 15xx Social Science Elective 3 0 3 15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12	5042	Editing the Project Copy II	2	2	3
Ninth Term 9704 Co-Op Employment TWET Technology 1 40 2 Tenth Term *xxxx Technical Specialty Requirement 3 0 3 15xx Social Science Elective 3 0 3 15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12		Project Planning	3	_1_	3
Tenth Term 40 2 *xxxx Technical Specialty Requirement 3 0 3 15xx Social Science Elective 3 0 3 15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12		VEHEWE LEGINDREE	13	13	16
Tenth Term *xxxx Technical Specialty Requirement 3 0 3 15xx Social Science Elective 3 0 3 15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12	Ninth	Term	10 TO	E I'm	d be
*xxxx Technical Specialty Requirement 3 0 3 15xx Social Science Elective 3 0 3 15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12	9704	Co-Op Employment TWET Technology	1	40	2
15xx Social Science Elective 3 0 3 15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12	Tenth	Term allista moitsainurama	h he ve	Inan	olie
15xx Social Science Elective 3 0 3 15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12	*xxxx	Technical Specialty Requirement	3	0	3
15xx Social Science Elective 3 0 3 5089 Conducting Project Reviews 1 6 3 10 6 12		Social Science Elective	3	0	3
5089 Conducting Project Reviews	15xx	Social Science Elective	3	0	20/20
12 es 6 div 10 ul differences can cause barriers to communica	5089	Conducting Project Reviews	1	6	3
The many of the result of the control of the result of the control		THE UNIQUENESS WAN DONERS IS A DASIC	10	6	12
			orti or	ונות אונו	110

Students whose test scores or previous experience indicate advanced standing may substitute another communication skills course.
Recommended substitutes: 1007, 1009.

Recommended Social Science Electives: 1505, 1506, 1524, 1527.

*Coordinator/Advisor approval required.

Sample Technical Specialty Requirements

The Technical Writing & Editing Technology advisors/coordinators help students plan an appropriate curriculum in their preferred technical specialty area. The samples that follow show the technical courses required for a few technical specialty areas. Consult with the Technical Writing & Editing Technology advisors for information about other technical specialty areas.

Sample A - Computer Systems Documentation Writing

	Hours Per Week		Credit
the Could Calmana	Class	Lab	Hours
1701 Introduction to Data Processing	. 3	0	3
1.702 Introduction to BASIC Programming	. 2	3	3
1721 Programming Logic & Methods	. 2	3	3
1124 Business Algebra		0	4
1742 COBOLI	. 3	7	6
1763 Systems Analysis & Design	. 3	7 7	5
1127 Business Statistics	. 4	0	4
6110 Software Documentation	. 2	2	3
1135 "C" Programming Language	. 2	2	3
the late of the second section is the first of the second			

Sample B - Health Technologies Documentation and Report Writing

kings edt to skowened leuteronen.	able to;	100000	Per Week Lab	Credit Hours
2232 Organic Chemistry		3	2	4
2233 Biochemistry	VOI	93	2	4
4000 Medical Terminology		3	1	3
4001 Introduction to Health Care Systems		2	0	2
4014 Anatomy & Physiology I		3	2	4
4016 Anatomy & Physiology II		3	2	4
4009 General Microbiology			3	4
4015 Anatomy & Physiology III			2	4
4408 Advanced Medical Terminology		3	0	3

Sample C - Engineering Documentation and Report Writing

		Hours P	er Week	Credit
13.	O P SELECTION OF THE PROPERTY	Class	Lab	Hours
7010	Engineering Drawing I	2	4	3
1191	Algebra & Trigonometry I	4	0	4
7160	Computer Aided Design/Drafting	2	3	3
2291	Physics I	3	2	3
1192	Algebra & Trigonometry II	4	0	4
7130	Engineering Mechanics (Statistics)	3	2	3
7132	Hydraulics & Pneumatics	4	2	4
7142	Mechanisms Analysis & Design	3	2	3
	Electrical Fundamentals & Controls		3	4

Sample D - Industrial Testing and Research Report Writing

		Hours P	er Week	Credit
	with Mt St Joseph College	Class	Lab	Hours
1191	Algebra & Trigonometry I	4	0	4
2291	Physics I	3	2	3
2293	Physics III	3	2	3
6611	Technical Laboratory Chemistry I	-3	3	4
6621	Technical Laboratory Chemistry II	3	3	4
6629	Science of Materials	3	2	4
6631	Technical Laboratory Chemistry III	3	3	4
6639	Fundamentals of Physical Measurement	3	2	492

Developmental Education Program

The Developmental Education program consists of three component parts to assist students in preparing for their technical programs.

Courses

Each Developmental Education course has been developed around specific objectives which relate to the courses required for the various technologies. Diagnostic techniques are used to determine individual deficiencies, to measure individual progress, and to determine when the student has met the established course objectives.

Developmental Education courses are designed to develop specific minimum competencies in each subject area. The grades for courses numbered from 0001 to 0057 are based on achievement of the identified competencies. Only grades of A, B, IP and F are awarded in these courses. Each specific course has predefined criteria to earn a grade of A, B, IP or F.

Through the use of specialized methods and modern equipment and with an extensive reliance upon learning laboratory experiences, the student may progress at an individual rate in most courses. The student will be tested frequently to assist in ascertaining progress.

The following courses are offered:

#0001	English Grammar4
#0002	College Spelling
#0003	Basic Writing I4
	Basic Writing II
#0007	Telephone Techniques
#0008	Oral Reports
#0010	College Reading I
#0011	College Reading II4
#0012	Technical Reading I
#0013	Technical Reading II
	reclinical Reduing in

#0014	College Study Skills
#0017	Speed Reading4
#0020	Basic Mathematics I
#0021	Basic Mathematics II
#0022	Essentials of Mathematics
#0024	Basic Algebra I
#0025	Basic Algebra II
#0030	Basic Concepts of Biology
#0031	Basic Concepts of Chemistry
#0040	Interpersonal Development
#0041	Interpersonal Communications4
	Interpersonal Skills
	Pre-Accounting4

Laboratory

Developmental Education also serves students who have been accepted into technical programs and are pursuing a full or part-time schedule of classes. On the mezzanine floor of the Learning Resource Center there is a well-equipped, open laboratory where students may increase their skills in reading, English and mathematics, etc.

Basic Skills Assessment Services

Placement testing in the basic skills academic areas of Reading, Writing and Mathematics is available upon request.

Testing, interpretation, and advising are available on a walk-in basis during the hours of 8:30 A.M. and 3:00 P.M., Monday through Friday, also Monday evenings from 6:00 P.M. till 9:00 P.M.

Tutorial Services

Tutoring is offered to those who want and need more instruction, more practice or more discussion in a particular subject. At the beginning of each term, students sign up for tutoring hours in the subjects of their choice. As soon as a qualified student-tutor is located, weekly sessions are scheduled. Tutoring may be conducted in small groups or individually. There is no cost to students as the College pays for the student-tutors.

Health Technologies Division

The Health Technologies Division at Cincinnati Technical College brings together in one unit all programs for the education and training of health personnel. The division offers several associate degree and certificate programs. Additionally, the division offers special courses, workshops, seminars and forums at which persons can learn new skills and acquire new knowledge or update the knowledge and skills needed to perform effectively on their jobs. The division affiliates with over forty different hospitals and other health care agencies and institutions to provide clinical experiences for health students.

Prerequisites for all programs are available at CTC.

Dietetic Programs

Cincinnati Technical College Dietetic programs train students in various aspects of health related to food service and nutrition care.

Cincinnati Technical College offers one certificate and two associate degree options to meet a variety of career choices and employment opportunities. All programs include unpaid directed practice at area hospitals, health agencies and extended care facilities. The associate degree programs also include paid coop-

Credits

Dietetic Technician - Nutrition Care (DTNC)

This program prepares the student to provide nutritional screening assessment and diet instruction to the patient/client under the supervision of a Registered Dietitian.

This includes data gathering from the patient's record and verbal history, preliminary assessment of nutritional status and the management of the nutritional care plan for patients/clients not at nutritional risk.

Successful completion of this program permits the student to take the American Dietetic Association certification examination for Dietetic Technicians. This program is approved by the American Dietetic Association.

Hours Per Week Credit

Dietetic Technician Nutrition Care Curriculum

			Hours Per Week	
	The state of the s	Class	Lab	Hours
First Te	rm			
	English Composition I	. 3	0	3
	ntroduction to Medical Terminology	. 3	1	3
	ntroduction to Health Care Systems	. 2	0	2
	Fundamentals of Nutrition	. 4	0	4
	Diet Orientation & Dir Practice I	. 1	3	1
4121 F	Food Management	. 2	6	4
		15	10	17
Second		iervir	lisiy	nisi
9301 (Co-Op Employment Health Technology	1	40	3
Third T		9013	0	OUUI D. GOD
	Human Relations		0	3
	Health Care Management		0	3
	Nutrition for Lifecycle	. 4	0	4
	Dietetics Directed Practice II	. 0	6	91110
	Food Service Sanitation Certification	. 2	0	2
4133 H	Food Science	3	2	4
		15	8	17
Fourth		No.		20. 2
9302 (Co-Op Employment Health Technology	·M	40	3
Fifth Te		0	9	
	Fundamentals of Inorganic Chemistry	. 3	2	4
4014 /	Anatomy and Physiology I	. 3	2	4
	Technology of Ed for Health		3	2
	Clinical Nutrition I		0	4
	Dietetics Directed Practice III		8	1
4122 1	ntroduction to Food Systems	2_	3	_3
		13	18	18
Sixth To		von me	9 (15)	o arso
	Communications Elective		0	3
	Fundamentals of Organic Chemistry		2	4
	Anatomy an Physiology II		2	4
4106 (Clinical Nutrition II	. 4	0	4
4114 [Dietetics Directed Pracice IV	0_	10	_ 2
		13	14	17
Sevent	h Term	Prog	OHIS	J 9K
	Oral Communication Elective	. 3	0	3
	Fundamentals of Biochemistry	. 3	2	4
	Anatomy and Physiology III	. 3	2	4
4107 (Clinical Nutrition III	. 4	0	4
4115 [Dietetics Directed Practice V	. 0	10	2
		13 39	14	17
• Eighth		area h	Oe at	racti
9303 (Co-Op Employment Health Technology	mogel or	40	2

■ Ninth	Term		A SECTION	
101x	Technical Writing Elective	3	0	3
15xx	Social Science Elective	3	0	3
15xx	Social Science Elective	3	0	3
4108	Community Nutrition	4	0	4
	Dietetics Seminar		0	2
4116	Dietetics Directed Practice VI	0	8	1
4117	DTNC Homecare Directed Practice	0	5	1
		15	13	17
			Algebi	112

Communications Electives: 1002, 1007, 1008, 1010
Oral Communications Electives: 1020, 1024

Technical Writing Elective: 1010, 1015

Social Science Electives: (at least 2 groups shall be represented)

Group 1 - Psychology: 1505, 1506, 1508, 1509

Group 2 - Economics: 1512, 1513

Group 3 - Sociology: 1521, 1523, 1525, 1527 Group 4 - Government: 1531, 1535, 1536, 1539

Articulation with Mt. St. Joseph College

The Dietetic Technician Nutrition Care program has a formal articulation agreement with the College of Mount St. Joseph Dietetics program. This agreement enables graduates to apply all of their credits toward a Bachelor of Science degree in Dietetics. Any student interested in pursuing an advanced degree should see the program director for information and counseling.

Dietary Manager Certificate (DMC)

This program prepares students to perform supervisory functions in health care facilities. These may include tray line supervision, employee scheduling, inventory control and other duties as assigned.

The dietary manager program can be completed primarily in the late day and evening. The program is approved by the Dietary Managers Association.

Dietary Manager Technology Certification Curriculum

		Week Lab	Credit
hen the student has met the mal trill	a determine w	d bris	gress,
4131 Developmental Nutrition	2 15	0	2
4141 Dietary Manager's Orientation	nental. Educal	3	2
	egmoo mamii on benedmun	-	4
■ Second Term			
4121 Food Management	2	6	4
4124 Food Service Sanitation Certification		0	2
			6
sive reliance upon learning laborators.	vith an exten	Lbns	trian
■ Third Term vibral no to azengong varm			
4112 Dietetics Directed Practice II		6	e le 1m
4122 Introduction to Food Systems	2	3	3
4132 Basic Diet Therapy	2	0	2
	4	9	6
A	Alleh Cramma	Epre	ronot
4125 Quantity Food Production	2	5	4
4147 Dietetic Manager Seminar	ic Version II.	0	1
4155 Basic Mgt Tech Food Service	2	0	2
	ahog53 li	5	7
■ Fifth Term	lege Reading		01003
4143 Food Systems Mgt Direct Practice III	tege Keading	8	2
h II no			25

Dietetic Technician Food Systems Management (DTFM)

The Dietetic Technician Food Systems Management will prepare graduates to enhance and extend the functions of the health care food service systems Management and Extended Care Dietitians. The program will train technicians in areas of menu writing and management, human resources management, quantity food procurement, control and preparation, and time and systems management.

Dietetic Technician Food Systems Management Curriculum

		Hours Per		Cred
P	A Language II to the language II	Class	Lab	Hou
First 7	erm work			
1001	English Composition I	3	0	3
4000	Introduction to Medical Terminology	3	1	3
4001	Introduction to Health Care Systems	2	0	2
	Fundamentals of Nutrition		0	4
	Diet Orientation & Dir Practice I		3	1
4121	Food Management	A STATE OF THE STA	6	4
		15	10	17
	Art Car			
Secon	nd Term			
	Co-Op Employment Health Technology	1	40	3
300.	See Sp 2 mpro) ment realth recentled			1007
Third				
1502	Human Relations	3	0	3
4031	Health Care Management	3	0	3
	Nutrition for Lifecycle		0	4
	Dietetics Directed Practice II		6	1
	Food Service Sanitation Certification		0	2
4133	Food Science	3	2	4
		15	8	17
			TVST I	O'KOL
	h Term Co-Op Employment Health Technology	holinanii	40	3
9302	Co-Op Employment Health Technology	al Science	40	XI 3
Fifth 1	Term	infranti for	vesty v	WANT.
4030	Technology of Ed for Health	1	3	2
	Introduction to Clinical Nutrition	4	0	4
	Introduction to Food Systems		3	3
	Quantity Food Production		5	4
4143	Food Systems Mgt Dir Practice III	ioma qu	8	2
		10	19	15
Sixth	wickson Elective	Ummo	alO x	TUZ
	Communications Elective	3	0	2
			0	3
	Public Policy/American Worker		0	3
1850	Computerized Business Application	2	3	3
2911	Principles of Accounting I	3	2	3
	Institution Menu Planning		2	2
	Food Systems Mgt Dir Practice IV		8	3
7177	Tood systems wigt Dil Fractice IV			-
		14	15	17
Sever	nth Term	W kann	Del x	TOT
	Oral Communication Elective	3	0	3
1500	Social Science Elective	3	0	3
			_	
	Food & Beverage Cost Control		0	3
	Survey of Marketing		0	3
	Principles of Accounting II		2	3
4145	Food Systems Mgt Dir Practice V	2	8	3
	on: (at loss two groups shall be represented).		10	18
	90 1505 1506 1509 1509	piodos!	L. Lou	Crai
	Co-Op Employment Health Technology	Cononac	40	2
9303	Co-op Employment Health Technology	mmeyoù	40	ioni
	Ves: 1007, 1007, 1008, 1009, 1010 Term	ion Elect	160mu	mme
101x	Technical Writing Elective	3	0	3
	Catering Banquets Beverage Mgt		0	
	Contemporary Health Care ISU		0	3
			U	3
4061				2
4061 4109	Dietetics Seminar	2	0	2

Communications Electives: 1002, 1007, 1008, 1009, 1010

Oral Communications Electives: 1020, 1024

Social Science Electives: 1505, 1506, 1508, 1509, 1512, 1513, 1521, 1523, 1525, 1527, 1531, 1537

Medical Assistant Technology (MAC) (MA)

The Medical Assistant program trains students to work in physicians' offices providing patient care and performing administrative tasks. Administrative tasks include filing, scheduling appointments, handling correspondence, maintaining patient records and reports, and processing insurance forms. Clinical duties involve recording of histories, taking vital signs, preparing patients for examinations, giving injections and performing routine tests.

The Medical Assistant program offers two options: students must complete the first year for a technical certificate and then may elect to continue through the second year for an associate degree. Students in either option must complete supervised clinical practices or externships to develop competencies in the skills needed by the Medical Assistant. Students receive no monetary reimbursement for these experiences.

CTC's Medical Assistant program is accredited by the American Medical Association's Committee of Allied Health Education and Accreditation (CAHEA) in collaboration with the American Association of Medical Assistants (AAMA).

Upon successful completion of the program, graduates are eligible to take the Certified Medical Assistant Examination given by the AAMA.

Medical Assisting Certificate Curriculum

	of the information needed by physic	Hours Pe	Week	Credit
-sort to	patients. They work in the laboratories	Class	Lab	Hours
First T	arch centers and industry. In brimmi			
4000	Intro to Medical Terminology	3	781 o	3
4041	Integrated Science I	3	2	4
4200	Medical Office Practice I	2	3	3
4202	Clinical Procedures I	2	3	3
	Medical Lab Procedures I	2	3	3
		12	12	16
odium	ats including glucoso, uvaa, oblocida, s	ioutile a	-	boold
	mes, in hometology they take mraf br	and enzy	S THUE	polas
	Business English	3 A	0	3
4042	Integrated Science II	3	2	4
4201	Medical Office Practice II	. 2	3	3
4203	Clinical Procedures II	1 1	3	3
4441	Medical Word Processing Operations I	3 77 17 17 17	-	CILLIE TO
		11	11	16
■ Third	Term is exercise ment books with the	lion pa	DOCAL	reqy)
4211	MA Clinical Experience I	0	21	3
■ Fourt	ocatory Technician program 1 mraT d	ical Lah	Med	edT
4007	Emergency Medical Procedures	dw meu	2	2
	Integrated Science III		2	4
4205	Medical Lab Procedures II	2	3	3
4208	Insurance/Patient Records	2	2	3
	n in cooperation with the National Acc		9	12
	aboratory Sciences (NAACLS)	leninil"	nol v	Agrenz
■ Fifth 1	The state of the s	grnos II	CESSR	DUK.
	Human Relations		0	3
2909	Office Accounting I	300	2	30
	Medical Assistant Seminar	oco Z	21	3
4212	MA Clinical Experience II	0		3
	rsonnel to obtain certification as a	8	27	12
				59

Medical Assistant Technology Curriculum

	Hours Per	Hours Per Week	
LUST TOP STATE CIST, OTHER BOOK SOOF SOOF	.Class	Lab	Hours
First Term			
100x English Composition Elective	3	0	3
4001 Introduction to Health Care Systems	2	0	2
4224 Advanced Clinical Procedure	2	3	3
4408 Advanced Medical Terminology		0	3
4442 Medical Word Processing Operations II	1	3	3
ant program trains students to work in phy we rationt care and performing administration	11	6	14
Second Term	vita tein	mbA	asks.
1011 Business Communications	1100 3	0	3
1024 Group Dynamics & Problem Solving	3	0	3
1527 Technical & Ethical Decisions	3	0	3
4131 Developmental Nutrition	4	0	4
4206 Medical Laboratory Procedures III	2	3	3
	1 7 53 7	0.300	16
Third Term and complete suc marin	dents in e	PECT IN	legre
4213 MA Clinical Experience III			4
Fourth Term	the tyledi	yel b	elesia.
15xx Social Science Elective	3	0	3
1509 Human Development-Adolescence-Aging	3	0	3
4031 Health Care Management		0	3
4209 Medical Assistant Seminar	2	4	3
	11	4	12
	D. M. Pried	DOS (HO	Maria
			46

English Composition Electives: 1001, 1002

Social Science Electives: 1505, 1506, 1508, 1521, 1523, 1525

Medical Laboratory Technician (ML)

Medical Laboratory Technicians work closely with physicians. They provide much of the information needed by physicians to diagnose and treat patients. They work in the laboratories of hospitals, clinics, research centers and industry. In biochemistry, hematology, microbiology and blood bank laboratories they form a vital part of the health care team.

Medical laboratory technicians employed in a laboratory, a hospital or clinic may specialize in one or two of the several areas of laboratory work or may rotate through all the departments in the laboratory. In biochemistry they perform chemical analysis of the blood for constituents including glucose, urea, chloride, sodium, potassium and enzymes. In hematology they take blood samples from patients, count red and white cells, determine coagulation, bleeding and prothrombin times, measure sedimentation rates and determine hemoglobin concentrations. In microbiology they prepare and stain slides, plate cultures from urine, feces and wound specimens, determine the susceptibility of bacteria to antibiotics and examine specimens for parasites. In blood bank they type blood from patients, draw blood from donors and process it. In the serology department they examine specimens for antibodies against various diseases.

The Medical Laboratory Technician program is an associate degree program which includes two terms of unpaid clinical laboratory experience and two terms of paid cooperative employment. The program is accredited by the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association in cooperation with the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

Successful completion of the curriculum enables a student to apply to take a national certification exam. Graduates may apply to the American Society for Clinical Pathology Board of Registry Examination to obtain certification as a Medical Laboratory Technician, MLT (ASCP), or the National Certification Agency for Medical Laboratory Personnel to obtain certification as a Clinical Laboratory Technician, CLT (NCA).

Medical Laboratory Chaod asistematical Comments of the State of the St

11 xx			Class	Lab	Hou
1001 English Composition 3 0 0 1 11xx Math Elective	First 1	will train secondicions in areas of migra	Hatgo	10 pd	ars.
11xx Math Elective	1001	English Composition I	2	0	3
2231 Fundamentals of Inorganic Chemistry 3 2 4 4014 Anatomy and Physiology I 3 2 4 4301 Basic Laboratory Techniques 1 3 3 2 4301 Basic Laboratory Techniques 1 1 3 3 2 4302 Basic Laboratory Techniques 1 1 4 7 TI Second Term 2232 Fundamentals of Organic Chemistry 3 2 4 4015 Anatomy and Physiology II 3 2 4 4302 Basic Hematology & Urinalysis 4 6 6 6 4320 Basic Hematology & Urinalysis 4 6 6 6 4320 Basic Hematology & Urinalysis 4 6 6 6 4350 Orientation to the Clinical Lab 1 9 2 Third Term 2233 Fundamentals of Biochemistry 3 2 4 4304 Clinical Chemistry 3 2 4 4304 Clinical Chemistry 4 6 6 6 4304 Clinical Chemistry 4 6 6 6 4304 Clinical Chemistry 4 6 6 6 4305 Basic Hematology II 3 2 4 4306 Linical Chemistry 4 6 6 6 4306 Linical Chemistry 5 10 10 10 10 Fourth Term 15xx Social Science Elective 3 0 3 4315 Laboratory Practicum I 0 12 4 4316 Laboratory Basic Bective 3 0 3 4309 General Microbiology 3 3 4 4305 Blood Banking - Serology 4 6 6 6 4 6 6 4 7 Seventh Term 10xx Communication Elective 3 0 3 15xx Social Science Elect					
4014 Anatomy and Physiology 3 2 4				-	
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Group 2 - Economics: 1512, 1513 Group 3 - Sociology: 1521, 1522, 1523, 1525, 1527 Group 4 - Government: 1531, 1535, 1537, 1539 ommunication Electives: 1007, 1007, 1008, 1009, 1010 oral Communication Electives: 1020, 1024	ocial So	cience Electives: (at least two groups shall be re	epresen	ted)	
Group 3 - Sociology: 1521, 1522, 1523, 1525, 1527 Group 4 - Government: 1531, 1535, 1537, 1539 ommunication Electives: 1007, 1007, 1008, 1009, 1010 oral Communication Electives: 1020, 1024)		
Group 4 - Government: 1531, 1535, 1537, 1539 ommunication Electives: 1007, 1007, 1008, 1009, 1010 oral Communication Electives: 1020, 1024					
Group 4 - Government: 1531, 1535, 1537, 1539 ommunication Electives: 1007, 1007, 1008, 1009, 1010 oral Communication Electives: 1020, 1024 and a product of the communication Electives: 1020, 1020 and a product of the communication Electives: 1020, 1020 and a product of the communication Electives: 1020, 1020 and a product of the communication Electives: 1020, 1020 and a product of the communication Electives: 1020, 1020 and a product of the communication Electives: 1020, 1020 and a product of the communication Electives: 1020, 1020 and a product of the communication Electives: 1020, 1020 and a product of the communication Electives: 1020, 1020 and a product of the communication Electives: 1020, 1020 and a product of the commu					
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ral Communication Electives: 1020, 1024 and a minimum to a fine of the communication of the c)		
	ral Co	mmunication Electives: 1020, 1024	V leading		
	-IIIIICO				
	Group	4 - Government: 1531, 1535, 1537, 1539 nication Electives: 1007, 1007, 1008, 1009, 1010)		
CHIICAL VVIIINS FIECTIVES: IOIO 1015					

Medical Record Technology (MR)

CTC's program is accredited by the Committee on Allied Health Education and Accreditation (CAHEA) in cooperation with the Council on Education of the American Medical Record Association (COE-AMRA).

Medical Record Technicians are responsible for preparing, analyzing and preserving health information in hospitals, clinics, nursing homes, insurance companies and health maintenance organizations.

Students spend every other term in paid cooperative education experience.

Graduates are eligible to take the National Accreditation Examination of the American Medical Record Association for the designation A.R.T (Accredited Record Technician).

Medical Records Technology Curriculum

		Class		Cre
		Class	Lab	Hou
First T				
	English Composition I	3	0	3
	Introduction to Medical Terminology	3	1	3
4001	Introduction to Health Care Systems	2	0	2
4014	Anatomy and Physiology I	3	2	4
4414	Record Science, File Sys/Rec Analysis	4	3	5
		15	6	17
Secor	nd Term	Y DESIGN		5.6-5-7
	Co-Op Employment Health Technology	1	40	3
Third	Term	Selec	Logi	XXE
10xx	Communications Elective	3	0	3
	Anatomy and Physiology II			4
	Medical Word Processing	3	6	6
	Advanced Medical Terminology		0	3
4415	Legal Aspects of Rec in Health Care	3	1	4
4413			-	-
£ .	Arting Elective	15	9	20
	h Term & ygoloiz gloodie 1 to ala			020
9302	Co-Op Employment Health Technology	Value	40	3
Fifth 1	T <mark>erm</mark>		17.4	
102x	Oral Communication Elective	3	0	3
4016	Anatomy and Physiology III	3	2	4
4031	Health Care Management	3	0	3
4416	Coding Diagnoses, Operations & Proc	5	5	7
	Practice IV 0 16	14	7	17
Sixth	Term			
	Co-Op Employment Health Technology	1	40	3
Sever	nth Term. harmone yearself	viore	rus-pa	1723
101x	Technical Writing Elective	3	0	3
15xx	Social Science Elective	3	0	3
	Human Relations	3	0	3
	Computerized Business Application		3	3
	Medical Statistics & Record Abstract			
	Medical Record Directed Practice I			
	is Electives: 107.0. 1024	14	21	19
Fight	h Term	haday	SH-10	BOTH
9304	Co-Op Employment Health Technology	nique	40	10012 10016
Ninth	Term . Gran a san ji di ango	MIE A	J-1:0	Ugne
	Social Science Elective	3	0	3
	Fundamentals of Pathophysiology	5	0	
	Medical Record Seminar	3	0	3
4418	Tumor Registry, Util Rev & Qual Assu		. 0	4
4429	Medical Records Directed Practice II	0	0	38 4
1723	Medical Records Directed Fractice II	0	10	-
				18

■ Tenth Term	
9305 Co-Op Employment Health Technology 1 40	2
	104
	4611
Communications Electives: 1002, 1007, 1008, 1009, 1010	
Oral Communications Electives: 1020, 1024	
Technical Writing Elective: 1010, 1015	
Social Science Electives: (at least two groups shall be represented)	
Group 1 - Psychology: 1505, 1506, 1508, 1509	
Group 2 - Economics: 1512, 1513	
Group 3 - Sociology: 1521, 1523, 1525, 1527	
Group 4 - Government: 1531, 1535, 1539	

Occupational Therapy Assistant Program (OTA)

Occupational therapy is the art and science of directing man's response to selected activity to promote and maintain health, to prevent disability, to evaluate bahavior and to treat or train patients with physical or psychological dysfunction.

The term selected activity in the definition of occupational therapy is the key to uniqueness of the field and relates directly to an individual's occupation. Occupation may be defined as those tasks which occupy the majority of one's time. Occupational therapy is concerned with the person biologically, psychologically, and socially, and provides services to those individuals whose ability to cope with the tasks of living is threatened or impaired. Using evaluative and therapeutic means, occupational therapy promotes meaningful performance throughout the life cycle and encourages a healthy balance of time spent in self-care, work, and play-leisure.

The graduate occupational therapy assistant is a technically qualified member of the health team who functions under the supervision or consultation of a certified/registered occupational therapist. The assistant accepts clinical responsibilities in hospitals, nursing homes, day care centers, rehabilitation centers, or those organizations directed to maintain health and socialization of its members. The graduate will demonstrate entry-level competency in the analysis of activities and their application to patient needs; occupational therapy concepts and skills (daily living skills, group activities, media used in treatment, and adaptive equipment); direction of activity programs; management of department operations; data collection; self understanding and the realization of the effect that one's behavior has on the patient/ client and others; upholding the standards of the profession and identifying the need for continuing professional education and growth; and relating occupational therapy to the total health care system.

This program will be approved by the American Occupational Therapy Association. Upon successful completion of the associate degree Occupational Therapy Program, the graduate will be qualified to take the certification exam and be licensed as a certified occupational therapy assistant.

Occupational Therapy Assisting Curriculum

	Hours re	Hours Per Week		Hours Per Week Cre	
ogram graduates may apply for the certifi-	Class	Lab	Hours		
■ First Term					
1001 English Composition I	3	0	3		
1505 Intro to Psychology: Internal World		0	300		
4000 Introduction to Medical Terminology	3	(9619)	3		
4001 Introduction to Health Care Systems	2	0	2		
4600 Introduction to OTA	2	3	3		
	13	4	14		
Second Term	SY CUT	olon	iech		
1002 English Composition II	3	0	3		
1506 Intro to Psychology: External World	3	0	3		
4014 Anatomy and Physiology I	3	2	4		
4610 Theory of OT		0	3		
4620 Techniques of OT	0	4	2		
	12	6	15		

Third	Term		ment i	laro
	Group Dynamics & Problem Solving	3	0	
4015	Anatomy and Physiology II	3	2	
	OT Concepts - Psychiatric	3	0	
	Media for OT - Psychiatric	0	4	
4651	OTA Field Work I (Level I)	0	8	
		9	14	S le
Fourt	h Term	ulom;	10	TIE
1508	Child Psychology	3	0	
4016	Anatomy and Physiology III	3	2	
4612	OT Concepts - Pediatrics	3	0	
4622	Media for OT - Pediatrics	0	4	
4652	OTA Field Work II (Level I)	0	8	
		9	14	
Fifth	Term	de la co	O AUTO	77
	Human Development Adolescence-Aging	3	0	
4020	Fundamentals of Pathophysiology	5	0	
4025	Kinesiology	5	0	
4613	OT Concepts - Physical Disabilities	3	0	
	Media for OT - Physical Disabilities	0	4	
	tupation. Octupation may be defined as by the malarity of one's time. Occur-	16	4	Dr.
Sixth	Term Alsolapion norma est dille ben	190/10	y is co	q _E
1010	Technical Writing 1	3	0	
1521	Introduction to Sociology	3	0	
	Emergency Medical Procedures	1	2	
	OT Concepts - Geriatrics	3	0	
4624	Media for OT - Geriatrics	0	4	
4653	OTA Field Work III (Level I)	0	8	1
		10	14	BE
Seven	th Term	TOO M	noiei	n'e
	Human Relations	3	0	
	Surv of Therapeutic Media OT	0	6	
4631	OT Fundamentals Practice	3	0	1
	e caduate vil demonstrate e ary level e	6	6	0
	Term	OLDER!	in the	Y-
9304	OTA Field Work IV (Level II)	1	40	
				10

Respiratory Therapist (RT)

Respiratory Therapy education at CTC is a two year associate degree program

Students are trained to administer gas therapy, humidity therapy, aerosol therapy and intermittant positive pressure breathing techniques. Graduates should be able to assist with long-term, continuous artificial ventilation and special diagnostic and therapeutic procedures.

The program is twenty-two months in duration. This program does not include paid cooperative education as students spend their time in course work and unpaid clinical experiences.

The program is accredited by the American Medical Association's Committee of Allied Health Education and Accreditation in collaboration with the Joint Review Committee for Respiratory Therapy Education. Program graduates may apply for the certification examination and registry examination administered by the National Board for Respiratory Care (NBRC). Candidates who complete these requirements are recognized as Certified Respiratory Therapy Technicians (CRTT) and as Registered Respiratory Therapists (RRT).

Respiratory Therapy Technology Curriculum

	Hours Per Week		k Credit	
Physiology I X Z R	Class	Lab	Hours	
■ First Term				
11xx Math Elective	. 4	0	4	
4001 Introduction to Health Care Systems		0	2	

	Chemistry for Health Technology	. 3	2	4
	Emergency Medical Procedures	. 1	2	2
4014	Anatomy and Physiology I	3	2	_4
		13	6	16
	nd Term	(A \$/	AA. (C)	SILIE
	English Composition I	. 3	0	3
4015	Anatomy and Physiology II	. 3	2	4
4701	Respiratory Therapy Science I	. 3	2	4
4720	Cardiopulmonary A & P	3	2	4
		12	6	15
Third	Term		ence,	190
4009	General Microbiology	3	3	4
4016	Anatomy and Physiology III	3	9 2	4
	Respiratory Therapy Science II			
4711	RT Clinical Practice I	. 0	8	2
		8	16	13
Fourt	h Term	(COC)	A look	bo
	Communications Elective	. 3	0	3
	Essentials of Pharmacology		0	3
4703	Respiratory Therapy Science III	3	2	4
4712	RT Clinical Practice II	. 0	8	2
	Pulmonary Diseases I	_ 2	0	2
		11	10	14
Fifth 1	To ricality Care Systems	noibu	bonini	100
	Oral Communication Elective	3	0	3
	Respiratory Therapy Science IV	3	2	4
	RT Clinical Practice III	0	24	5
	Pulmonary Diseases II	2	0	2
., ,,	Tamonal y Discuses II	8	26	14
01 41	oyment health Technology 1 40	oprod o	O-D)	108
Sixth	Social Science Elective	3	0	3
	Respiratory Therapy Science V	3	200	4
	RT Clinical Practicum I	0		4
4/14	T Clinical Flacticuli 1	6	34	11
E	ledical ferchlology 3 0	VI DECU	TOTAL !	100
	th Term Technical Writing Elective	3	0	3
	Health Physics I	3	2	3
4020	Fundamentals of Pathophysiology		0	5
	Respiratory Therapy VI		2	4
	, , , , , , , , , , , , , , , , , , , ,	14	4	15
	4 8 3 3 3 3 3 3 3 3 3 3 3		Term	dyn
	Term 9v00000 0000000	111110	0	
15XX	Social Science Elective	3	0	3
		3	0	3
4715	Respiratory Therapy Science VII	0	16	3
47.13	KI Chilical Flactice IV	9	16	11
			mist a	inis
Ninth 4716	RT Clinical Practicum II	0	16	2
	Respiratory Therapy Seminar		2	3
1123	Kespiratory Therapy Seminar		-	777
		2	18	_ 5
				114
ath Fle	ctives: 1131 1151 1171 1101 1100 A 1100 A			

Math Electives: 1131, 1151, 1171, 1191

Communications Electives: 1002, 1007, 1008, 1009, 1010

Course 4000, Intro to Medical Terminology is suggested in the first term.

Oral Communications Electives: 1020, 1024

Social Science Electives: (at least two groups will be represented)

Group 1 - Psychology: 1502, 1505, 1506, 1508, 1509

Group 2 - Economics: 1512, 1513

Group 3 - Sociology: 1521, 1523, 1525, 1537

Group 4 - Government: 1531, 1535, 1539

Surgical Technology (ST)

A surgical technologist is a health care practitioner assisting with the care of the surgical patient and other related patient services. Employment opportunities include hospitals, outpatient surgical centers and private surgeons. Areas of practice include

operating room departments, obstetrical departments, medical supply/processing departments, outpatient surgical centers and physicians' office practices.

During operative procedures, the surgical technician functions as an integral part of the surgical team and works directly with the anesthesiologist, registered nurse and surgeon. Their responsibilities include preparation of surgical equipment, instrumentation during operative procedures and other intra-operative patient care activities.

Surgical technology is an associate degree program which focuses upon a basic understanding of General Surgery and Surgical Specialities. Approximately sixteen area hospitals are affiliated with the program.

The first year of the curriculum concentrates upon surgical concepts, theory and operative procedures. Theory and practice is integrated through the use of simulated laboratory experiences and hospital operating room experiences. During this year students will also take supportive course-work in basic sciences, communication skills and social sciences.

The emphasis of the second year is directed towards intensive practical hospital experience, consisting of forty hours per week, for three consecutive terms. These clinical terms provide additional clinical application and practical problem solving experiences for the student. Students are not paid during these learning experiences.

The surgical course work is taken in sequential terms throughout the curriculum.

The program is accredited by the American Medical Association's Committee of Allied Health Education and Accreditation in collaboration with the Joint Review Committee for Surgical Technologists.

Upon satisfactory completion of the curriculum, students are eligible for the National Certification Examination of the Association of Surgical Technologists for designation as a Certified Surgical Technologist (CST). A Certified Surgical Technologist may practice in any state within the USA.

Surgical Technology Curriculum

Iglish Composition Elective	3 2 3	1 0 3 0	3 3 2 4 4
Islish Composition Elective	3 2 3	1 0 3 0	4 4
ro to Medical Terminology	3 2 3	1 0 3 0	4 4
ro to Medical Terminology	3 2 3	1 0 3 0	4 4
roduction to Health Care Systems neral Microbiology	2	0 3 0	2 4 4
roduction to Surgery I	4_	0	4
roduction to Surgery I	4_	0	16
erm or otherwork (Cold Cold Cold Cold Cold Cold Cold Cold	15	4	16
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glish Composition Elective			
	3	0	3
atomy and Physiology I	3	2	4
vanced Medical Terminology	3	0	3
roduction to Surgery II	5	0	5
	14	2	15
m and and the eW mersene es	educada	Witers	GDO
ective Speaking	3	0	3
cial Science Elective	3	0	3
atomy and Physiology II	3	2	4
neral Surgery	4	0	4
Surgery Lab	0	2	1
	13	4	15
erm	PER PRINT	EIW R	m ol
cial Science Elective	3	0	3
atomy and Physiology III	3	2	4
entials of Pharmacology	3	0	3
neral Surgery II	4	0	4
Clinical Experience I	0_	5	2
	13	7	16
	m ective Speaking	Superstand	Surgery Surgery Surgery Surgery Surgery Lab Su

15xx	Social Science Elective	3	0	3
4007	Emergency Medical Procedures	1	2	2
4533		4	0	4
7 mm	ST Clinical Experience II	0	5	2
	4 1 I gentlement is	11 //	7	14
Sixth	Term	DOCE	avio/e #	Jack
4031	Health Care Management	3	0	3
4534	Surgical Specialties II	4	0	4
1524	Stress Management	3	0	3
4544	ST Clinical Experience III	0	5	2
	Sation. 3 0	10	5	12
Sever	th Term			
4551	St Clinical Practice I	1	40	7
Eight	Term 5 Ill gnitanibnoo iii	nU di	S Heal	427
4552	St Clinical Practice II	nt.1 da	40	7
Ninth	F ======		-	
4553	ST Clinical Practice III	1	40	7

English Composition Electives: 1001, 1002, 1007, 1008

Social Science Electives: (at least two groups shall be represented)

Group 1 - Psychology: 1502, 1505, 1506, 1508, 1509

Group 2 - Economics: 1512, 1513

Group 3 - Sociology: 1521, 1523, 1525, 1527

Special Offerings in Health Technologies Health Unit Coordinator (UCMA)

The Health Unit Coordinator's role is **non-nursing.** The Health Unit Coordinator performs the clerical, reception, communication and coordination tasks for the nursing unit thus giving the nursing staff more time to perform the clinical and patient care duties.

Health Unit Coordinators work in hospitals and nursing homes as managers of the non-clinical nursing tasks. Job duties include communications with the patients, public and other members of the health care team; maintenance of records, forms and lists; requisitioning of services and supplies; coordination of unit procedures; and general assistance with activities of the nursing unit.

Health Unit Coordinators must have good communication skills, ability to be tactful with all people, be able to organize and prioritize and have an understanding of the legal and ethical implications of their jobs.

Cincinnati Technical College's Health Unit Coordinator training program is a four term program. The first three terms consist of classes at the College covering Health Unit Coordinating procedures and communication skills. The last term consists of a five week internship at a local hospital along with classes at the College.

The Cincinnati Technical College program in Health Unit Coordinating meets the standards of education as published by the National Association of Health Unit Clerks/Coordinators. This program is designed for students seeking basic entry level skills in Health Unit Coordinating. Completion of the program will qualify the student to take the National Certification Exam for Health Unit Coordinators.

Health Unit Coordinator Certification Curriculum

н	ours Pe	er Week	Credit
anocardicypalty 2 4	Class	Lab	Hours
First Term			
4000 Intro to Medical Terminology	3	me1 b	3
4001 Introduction to Health Care Systems		0	2
4270 Orient Health Unit Coordination		0	3
	8	1	8

	nd Term	peds leaf	mue i	153
3002	Typewriting II	2	3	3
	Health Unit Coordinating I		4	4
4408	Advanced Medical Terminology	3	0	_ 3
		Manus 7 mile	7	10
Third	Term to the state of the state	nuscinity se	apic a	STILL STATE
1009	Business English	3	0	3
	Human Relation		0	3
4272	Health Unit Coordinating II	2_	_4	4
		8	4	1
Fourt	h Term			
4273	Health Unit Coordinating III	2	0	1 2
	Health Unit Coordinating Practicum		20	4
		2	20	(
				3

Electrocardiograph Technician (EGRT)

The ECG Technician is the entry level position of the health field of cardiovascular technology. Individuals in this field must possess the knowledge, skill and ability necessary to provide professional services related to proper diagnosis and subsequent treatment of cardiovascular diseases. The ECG technician is responsible for performing Electrocardiograms with patients who may have irregularities in heart action, or as part of a routine examination. The technician prepares the recording for analysis by the physician. This includes the recognition and elimination of technical errors in the recording and also the ability to recognize and call to the physician's attention, significant ECG abnormalities. Some ECG technicians must also type physician interpretations of ECG's on reports, schedule appointments, maintain patient files and care for ECG equipment. ECG technicians spend time moving from patient to patient and must have the physical dexterity to handle the equipment and the patient, and the stamina to endure long periods of time on their feet. With experience, an ECG technician may assist with or perform additional procedures such as stress testing and Holter monitoring. The Cincinnati Technical College program in Electrocardiography meets the essentials for an approved short course ECG technician training program as published by the American Cardiology Technologists Association. This program is designed for students seeking basic entry level skills in the field of cardiovascular technology. Completion of the program will qualify the student to function as a ECG technician in the hospital, clinic, or private physician's office.

For additional information about the program contact the Health Technologies Division at 559-1520, Extension 143 or 193.

Electrocardiograph Technology Curriculum

	Hours Pe	lours Per Week (
	Class	Lab	Hours	
■ First Term				
1502 Human Relations	3	0	3	
4000 Introduction to Medical Terminology	3	1	3	
	6	1	6	
■ Second Term				
4770 Basic Electrocardiography	3	2	4	
■ Third Term	silved A or o	mini O	COA	
4771 Arrhythmia Recognition	3	0	3	
4780 ECG Clinical Practice	0	20	1011	
	3	20	4	
			14	

Phlebotomy Certificate Training

Basic Phlebotomy (#4390)

Basic phlebotomy is a 50-hour course of lecture and lab covering terminology, anatomy and physiology appropriate to phlebotomy, phlebotomy techniques, and attitude and professionalism. The course is approved by the National Phlebotomy Association for continuing education credit.

Phlebotomy Clinical Practice (#4391)

The course consists of 100 hours of clinical practice of blood drawing in a local hospital. Students will be supervised by practicing phlebotomists employed by the hospital. A "C" or better in course #4390 is a prerequisite. Course #4391 is approved by the National Phlebotomy Association for continuing education units.

Business Technologies Division

Business and industry are constantly searching for capable and responsible men and women identified as managers who can establish an environment in which people work together in the most effective manner to achieve management goals. The number of managerial workers required by business is great and, especially in specialized business fields, is growing each year. Sound business training helps to develop better management for American business enterprise and, ultimately, has a profound influence on the economic welfare of the nation.

Cincinnati Technical College is meeting the need for specialized business training with twenty-one technological programs. Organized job experience through cooperative work assignments with leading business firms is a key phase of the learning program in each of these twenty-one business curricula. Collegiate level courses in these business areas, combined with jobrelated activities during the alternating ten-week co-op terms, provide students with both business skills and business experience. Upon completion of the two-year co-op/college program in business, students receive an associate degree and begin advancing rapidly to more responsible and better paying mid-management positions.

Credits earned in the degree programs are transferable. Articulation agreements have been established with The College of Mount St. Joseph, Thomas More College, Xavier University, Northern Kentucky University, Ohio University and the Union for Experimenting Colleges and Universities.

Cooperative Education

In the Business Technologies Division students participate in a cooperative education program. We feel that cooperative education sets Cincinnati Technical College apart from most colleges and universities. Cooperative education allows students to experience the application of their majors in the business world. All students in the Business Technologies Division are required to earn 13 credit hours in cooperative education (Horticulture, 11 credit hours). Those students with prior business experience, who do not wish to participate in the cooperative education program, may apply through their coordinators for the following co-op alternatives:

- 1. A thorough portfolio review of past work experience.
- 2. Substitution of business courses in lieu of co-op.

All students are strongly urged to participate in the co-op program.

Through cooperative education students will approach their first full-time employment after graduation with extensive experience in the business field.

To prepare students for a successful job interviews and continued success on their co-op jobs, all students are required to successfully complete the Professional Practices class offered by the Business Technologies Division before or concurrent with co-op class #9201 or #9501.

Industry Training

The Business Technologies Division is committed to providing customized training programs for business and industry. These programs are designed to provide employees with the necessary skill-building or updating needed to keep abreast of the rapid technological changes and challenges faced by today's business world.

Automotive Service Management Technology (AS)

Automotive Service Management students are instructed in automotive theory, repair and testing procedures, and practices, as well as management techniques while in school. As co-ops on the job in automotive service departments, parts departments, technical centers, etc., they receive practical experience under the direction of qualified technicians or experienced managers.

Automotive Service Management Technology Curriculum

			Hours Per Week	
COUP.	e filem a cini singlatir male of a cacunius e	Class	Lab	Hou
First 1				
	English Composition I	3	0	3
1120	Intro to Business Mathematics	4	0	4
2501	Automotive Technology I	5	10	8
		3	2	3
	ications Technology (DCT)	15	12	18
	nd Term		10	
9201	Co-Op Employment Business Tech	915 2121	40	3
Third		equiosic		
1002	English Composition II	3	100	3
1170	Intro to Technical Mathematics	4	0	4
2221	Technical Physics I	2	3	3
2502	Automotive Technology II	5	10	8
	ecialist installs and maintains the links		12	18
Fourt	udes Programming Data Commercial	will inch	2921	Cos
9202	Co-Op Employment Business Tech	410	40	3
Fifth 1	Term Term			
1512	Micro Economics	3	0	3
2222	Technical Physics II		3	3
2503	Automotive Technology III	2 2	8	5
2510	Automotive Management I		3	3
	Office Accounting I		2	3
	Business Principles		0	3
2525	business runcipies			
		15	16	20
Sixth		to Elective	telvi x	511
9203	Co-Op Employment Business Tech	4.bo	40	3
	Logic & Methods mrsT th			172
1010	Technical Writing I	3	0	3
	Intro to Psych: Internal World		0	3
1535	Intro to Labor Management Relations	3	0	3
2504	Automotive Technology IV	2	8	_5
2508	Techniques of Welding	1	4	2
2511	Automotive Management II	2	3	3
		14	15	19

■ Ninth	Term			indula s
1020	Effective Speaking	3	0	3
1823	Business Law I	3	0	3
1850	Computerized Business Applications	2	3	3
2505	Automotive Technology V	5	10	8
2903	Survey of Marketing	3	0	3
				20
	in to RPG 2	do	bount	1761
■ Tenth	Management Systems 2 mmT			
9205	Co-Op Employment Business Tech	3	40	2
				108

A competency-based math test will be administered to all entering Business Technology students. Its purpose is to start students into a math sequence which is more compatible to their level of experience and aptitude.

Management Information Systems (MIS) (Formerly Business Data Management Technology)

In the Management Information Systems program at Cincinnati Technical College, students learn the principles of both management and data processing. Management Information Systems training fills the need for personnel who can administer data processing operations.

Management Information Systems Technology Curriculum

	the Computer Information Systems Pr	Hours Pe	r Week	Credi
an igo	rt energe noommum talunno. an	Class	Lab	Hour
First 1	ferm	78 1335T CTR	JER J. B	a Still
1001	English Composition I	3	0	3
112x	Math Elective	migrei/a	0	191
1701	Introduction to Data Processing	olar39	900	913
1711	Introduction to Computer Operations		3	3
1712			3	3
2911	Principles of Accounting I	3	_ 2	3
	ormation Systems Programs	17	8	19
	pagilgalyan	3 vior	don	dag
Seco	nd Term	1.65	10000000	
9201	Co-Op Employment Business Tech	4	40	3
Third	Term **D			
1002	English Composition II	3	0	3
112x	Math Elective	4	0	4
1731	Peripheral-Equipment Operations	2	3	3
	Microcomputer Systems	2	0	
1/32	Microcomputer Systems		000	073
2912	Principles of Accounting II	3	2 5	3
2925	Business Principles			3
		18	5	19
Fourt	h Term			
9202	Co-Op Employment Business Tech	4	40	3
	Ob A sleep Towns Witness	Jan Langel	T. Cal	neg
Fifth 1	Term			4125
	Social Science Elective	3	0	3
	Introduction to Basic Programming			3
1702	Programming Logic & Methods	2	3	Mary 1
1751	Data Communications	4	3	3
1/54	Data Communications	0. 53	2 Adve	573
2913	Principles of Accounting III	. 3	01114	973
2926	Principles of Management	3	0	3
		16	10	18
Sixth	Term		rasif clar	15000
	Co-Op Employment Business Tech	44	40	053
Sever	nth Term		a Term	table s
	Technical Writing I			3
	Micro Economics			3
	Operating Systems I			
			303	3
1/42	COBOL Programming I	19 63	VIN.	8 6
1823	Business Law I	3	0	03
		14	10	18

■ Eighth Term			
9204 Co-Op Employment Business Tech	3	40	2
■ Ninth Term	1150	Compi	oca.
1020 Effective Speaking	3	0	3
1502 Human Relations	3	0	3
1741 Operating Systems II		3	3
1761 Introduction to RPG 2	3	7	6
1771 Data Base Management Systems	2	3	3
2903 Survey of Marketing	3	0	3
	16	13	21
■ Tenth Term	d Y	rio recon	(CO)
9205 Co-Op Employment Business Tech	3	40	2
pur addanable to tense dam of alguedar a sicu-			108

Math Electives: 1124, 1126, 1127, 1128, 1141

Social Science Electives: 1502, 1505, 1506, 1507, 1508, 1509, 1512, 1513, 1521, 1523, 1524, 1525, 1527, 1531, 1535, 1536, 1537, 1539, 1599

*A competency-based math test will be administered to all entering Business Technology students. Its purpose is to start students into a math sequence which is more compatible to their level of experience and aptitude.

For 15xx electives refer to the 15xx series section in course descriptions. Electives subject to approval of program coordinator.

Computer Information Systems Programming (CISP)

(Formerly Business Data Processing Technology)

The objective of the Computer Information Systems Programming at Cincinnati Technical College is to provide the student with the technical training necessary to function effectively as a computer programmer/analyst and to make a significant contribution to the co-op employer during training and to the information systems community after graduation.

Computer Information Systems Programming Technology Curriculum

		Hours Pe	r Week	Credi
	1	Class	Lab	Hours
First T	erm trottsogs			
1001	English Composition I	. 3	0	3
112x	Math Elective	. 4	0	4
1701	Introduction to Data Processing	. 3	0	3
1702	Introduction to Basic Programming	. 2	3	3
1721	Programming Logic & Methods	. 2	3	3
2911	Principles of Accounting I	3_	_2_	_ 3
		17	8	19
Secor	logoment titusiness fiech daef zaenistitt memojol	qrod qC	00 S	920
9201	Co-Op Employment Business Tech	. 4	40	3
Third			DOS X	W2-1
1002	English Composition II	. 3	0	3
112x	Math Elective	. 4	0	4
1722	Advanced Basic Programming	. 2	3	3
1761	Introduction to RPG 2		7	6
2912	Principles of Accounting II	. 3	2	3
		15	12	19
Fourt	h Term		trail of	rxi2 w
9202	Co-Op Employment Business Tech	. 4	40	3
Fifth 1		mis	enth	W Sev
1505	Intro to Psych: Internal World	. 3	0	3
1512	Micro Economics	. 3	0	3
1742	COBOL Programming I	. 3	7	6
	Advanced RPG 2	. 2	3	3
2913	Principles of Accounting III	. 3	2	3
		14	12	18

9203	Term Co-Op Employment Business Tech			
Sever	nth Term	2 W 10	10201	d ast
1010	Technical Writing I	3	0	3
	Data Communications	3	2	3
1762	COBOL Programming II	3	7	5
1763	Systems Analysis & Design	3	7	5
2903	Survey of Marketing	3	0	3
	Co-Op Employment Business Tech	3	40	2
		3	0	3
15xx	Effective Speaking	3	0	3
1739	Operating Systems	2	3	3
1752		2	3	3
1771	Data Base Management Systems	2	3	3
1823			0	3
2926	Principles of Management	3	0	3
	otive service departments, parts depart	18	9	21
Tenth	Term Co-Op Employment Business Tech	p jo	noilo	ib a
9205	Co-Op Employment business tech	3	40	
				109

Math Electives: 1124, 1126, 1127, 1141

Social Science Electives: 1502, 1505, 1506, 1507, 1508, 1509, 1512, 1513, 1521, 1523, 1524, 1525, 1527, 1531, 1535, 1536, 1537, 1539, 1599

A competency-based math test will be administered to all entering Business Technology students. Its purpose is to start students into a math sequence which is more compatible to their experience and aptitude.

*Electives subject to approval of program coordinator.

For 15xx electives refer to the 15xx series section in course descriptions. Electives subject to approval of program coordinator.

Data Communications Technology (DCT)

As the data processing industry continues to grow and mature, more specialists are needed each year to control and manage the information explosion.

Data communications technicians are those specialists who provide the expertise to insure that the information gets from its source to the place where it is needed. Utilizing a unique array of communication tools and trouble-shooting techniques, the data communications specialist installs and maintains the links of information.

Courses will include: Programming, Data Communications I and II, Networking, and Electronic Fundamentals.

Data Communications Technology Curriculum

	A . C	Hours Pe	r Week	Credit
	U K	Class	Lab	Hours
First 1	Term Term			
1001	English Composition I	. 3	0	3
112x	Math Elective	. 4	0	4
	Introduction to Data Processing		0	3
1702	Introduction to Basic Programming	. 2	3	3
1721	Programming Logic & Methods	. 2	3	3
7701	Electrical Fundamentals I	. 2	3	3
		16	9	19
■ Secor	nd Term	SYNERI	ONLIN 9	000
9201	Co-Op Employment Business Tech	. 4	40	3
■ Third	Term			
1002	English Composition II	. 3	0	3
112x	Math Elective	. 4	0	4
1722	Advanced Basic Programming	. 2	3	3

2911 Principles of Accounting I 3 2 7702 Electrical Fundamentals II 4 2 19 9 2 Fourth Term 9202 Co-Op Employment Business Tech 4 40 Fifth Term 1512 Micro Economics 1723 Assembler Language I 1742 COBOL Programming I 1744 COBOL Programming I 1764 Data Communications II 3 2					
Fourth Term 9202 Co-Op Employment Business Tech 4 40					180
Tend Fourth Term Pour Pour					
Fourth Term 9202 Co-Op Employment Business Tech 4 40 Fifth Term 1512 Micro Economics 3 0 1723 Assembler Language I 2 4 1742 COBOL Programming I 3 7 1764 Data Communications II 3 2 2912 Principles of Accounting II 3 2 2912 Principles of Accounting II 3 2 5eventh Term 9203 Co-Op Employment Business Tech 4 40 Seventh Term 1010 Technical Writing I 3 0 1502 Human Relations 3 0 1762 COBOL Programming II 3 7 1771 Data Base Manalysis & Design 3 7 1771 Data Base Management Systems 2 3 14 17 Eighth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3	7702	Electrical Fundamentals II			LIE
Fifth Term 3 0 1512 Micro Economics 3 0 1723 Assembler Language I 2 4 1742 COBOL Programming I 3 7 1764 Data Communications II 3 2 2912 Principles of Accounting II 3 2 2912 Principles of Accounting II 3 2 Sixth Term 9203 Co-Op Employment Business Tech 4 40 Seventh Term 3 0 4 40 Seventh Term 3 0 4 40 40 Seventh Term 3 0 4 40			19	9	2
Fifth Term 1512 Micro Economics 3 0 1723 Assembler Language I 2 4 1742 COBOL Programming I 3 7 1764 Data Communications II 3 2 2912 Principles of Accounting II 3 2 2912 Principles of Accounting II 3 2 Sixth Term 3 2 9203 Co-Op Employment Business Tech 4 40 Seventh Term 3 0 1502 Human Relations 3 0 1762 COBOL Programming II 3 7 1763 Systems Analysis & Design 3 7 1771 Data Base Management Systems 2 3 1771 Data Base Management Systems 2 3 170 Eighth Term 3 0 15xx Social Science Elective 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 177 5 Tenth Term 3 <	Fourt	n Term			
1512 Micro Economics 3 0 1723 Assembler Language I 2 4 1742 COBOL Programming I 3 7 1764 Data Communications II 3 2 2912 Principles of Accounting II 3 2 Sixth Term 3 2 9203 Co-Op Employment Business Tech 4 40 Seventh Term 1010 Technical Writing I 3 0 1502 Human Relations 3 0 1762 COBOL Programming II 3 7 1763 Systems Analysis & Design 3 7 1771 Data Base Management Systems 2 3 14 17 Eighth Term 9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 17x2 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 17x 5 Tenth Term <	9202	Co-Op Employment Business Tech	. 4	40	
1723 Assembler Language I 2 4 1742 COBOL Programming I 3 7 1764 Data Communications II 3 2 2912 Principles of Accounting II 3 2 14 15 2 Sixth Term 9203 Co-Op Employment Business Tech 4 40 Seventh Term 1010 Technical Writing I 3 0 1502 Human Relations 3 0 1762 COBOL Programming II 3 7 1763 Systems Analysis & Design 3 7 1771 Data Base Management Systems 2 3 14 17 Eighth Term 9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 176 Systems In the term 3 0 177 S 5				0-00	20
1742 COBOL Programming I 3 7 1764 Data Communications II 3 2 2912 Principles of Accounting II 3 2 14 15 2 Sixth Term 9203 Co-Op Employment Business Tech 4 40 Seventh Term 1010 Technical Writing I 3 0 1502 Human Relations 3 0 1762 COBOL Programming II 3 7 1763 Systems Analysis & Design 3 7 1771 Data Base Management Systems 2 3 14 17 Eighth Term 9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 17x2 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 17x 5 5 Tenth Term 9205 Co-Op Employment Business Tech 3 40 <td></td> <td></td> <td></td> <td>0</td> <td></td>				0	
1764 Data Communications II 3 2 2912 Principles of Accounting II 3 2 14 15 2 Sixth Term 9203 Co-Op Employment Business Tech 4 40 Seventh Term 1010 Technical Writing I 3 0 1502 Human Relations 3 0 1762 COBOL Programming II 3 7 1763 Systems Analysis & Design 3 7 1771 Data Base Management Systems 2 3 14 17 Eighth Term 9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 17x5 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 17x 5 5 Tenth Term 9205 Co-Op Employment Business Tech 3 40				4	
2912 Principles of Accounting II 3 2 14 15 2 Sixth Term 9203 Co-Op Employment Business Tech 4 40 Seventh Term 1010 Technical Writing I 3 0 1502 Human Relations 3 0 1762 COBOL Programming II 3 7 1763 Systems Analysis & Design 3 7 1771 Data Base Management Systems 2 3 1771 Data Base Management Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 175z Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 1823 Business Law I 3 0 17 5 5 Tenth Term 9205 Co-Op Employment Business Tech 3 40	1742	COBOL Programming I	. 3	7	
Sixth Term 9203 Co-Op Employment Business Tech 4 40 Seventh Term 1010 Technical Writing I 3 0 1502 Human Relations 3 0 1762 COBOL Programming II 3 7 1763 Systems Analysis & Design 3 7 1771 Data Base Management Systems 2 3 1771 Data Base Management Systems 2 3 14 17 Eighth Term 9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 1823 Business Law I 3 0 17 5 Tenth Term 9205 Co-Op Employment Business Tech 3 40	1764	Data Communications II	. 3	2	51
Sixth Term 9203 Co-Op Employment Business Tech 4 40 Seventh Term 1010 Technical Writing I 3 0 1502 Human Relations 3 0 1762 COBOL Programming II 3 7 1763 Systems Analysis & Design 3 7 1771 Data Base Management Systems 2 3 1771 Data Base Management Systems 2 3 14 17 Eighth Term 9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 1823 Business Law I 3 0 17 5 Tenth Term 9205 Co-Op Employment Business Tech 3 40	2912	Principles of Accounting II	. 3	2	08
Seventh Term 1010 Technical Writing I 3 0 1502 Human Relations 3 0 1762 COBOL Programming II 3 7 1763 Systems Analysis & Design 3 7 1771 Data Base Management Systems 2 3 14 17 Eighth Term 9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 Tenth Term 9205 Co-Op Employment Business Tech 3 40			14	15	2
Seventh Term	Sixth	Term LaraktusooA	lo estqu	Print	16
1010 Technical Writing I 3 0 1502 Human Relations 3 0 1762 COBOL Programming II 3 7 1763 Systems Analysis & Design 3 7 1771 Data Base Management Systems 2 3 14 17 Eighth Term 9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 Tenth Term 9205 Co-Op Employment Business Tech 3 40	9203	Co-Op Employment Business Tech	. 4	40	
1502 Human Relations 3 0 1762 COBOL Programming II 3 7 1763 Systems Analysis & Design 3 7 1771 Data Base Management Systems 2 3 14 17 Eighth Term 9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 17 5 Tenth Term 9205 Co-Op Employment Business Tech 3 40	Seven	th Term			
1762 COBOL Programming II 3 7 1763 Systems Analysis & Design 3 7 1771 Data Base Management Systems 2 3 14 17 Eighth Term 9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 Tenth Term 9205 Co-Op Employment Business Tech 3 40				0	
1763 Systems Analysis & Design 3 7 1771 Data Base Management Systems 2 3 1771 14 17 Eighth Term 9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 17 5 Tenth Term 9205 Co-Op Employment Business Tech 3 40					
1771 Data Base Management Systems 2 3 Eighth Term 9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 Tenth Term 9205 Co-Op Employment Business Tech 3 40				7	
Eighth Term 9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 17 5 Tenth Term 9205 Co-Op Employment Business Tech 3 40	1763	Systems Analysis & Design	. 3	7	
Eighth Term 9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 Tenth Term 9205 Co-Op Employment Business Tech 3 40	1771	Data Base Management Systems	2_	_ 3	02
9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 Tenth Term 9205 Co-Op Employment Business Tech 3 40			14	17	108
9204 Co-Op Employment Business Tech 3 40 Ninth Term 1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 Tenth Term 9205 Co-Op Employment Business Tech 3 40	Eightl	n Term	overachy.	laziO (8.28
1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 Tenth Term 9205 Co-Op Employment Business Tech 3 40			. 3	40	
1020 Effective Speaking 3 0 15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 Tenth Term 9205 Co-Op Employment Business Tech 3 40	- 8	O TE gothern	noffeet	COLUMN E	11
15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 17 5 Tenth Term 9205 Co-Op Employment Business Tech 3 40	Ninth	Term			
15xx Social Science Elective 3 0 1752 Real-Time Systems/Data Comm I 2 3 1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 17 5 Tenth Term 9205 Co-Op Employment Business Tech 3 40	1020	Effective Speaking	. 3	0	
1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 17 5 Tenth Term 9205 Co-Op Employment Business Tech 3 40				0	
1784 Networking 3 2 1823 Business Law I 3 0 2926 Principles of Management 3 0 17 5 Tenth Term 9205 Co-Op Employment Business Tech 3 40	1752	Real-Time Systems/Data Comm I	. 2	3	
2926 Principles of Management 3 0 17 5 Tenth Term 9205 Co-Op Employment Business Tech 3 40					
Tenth Term 9205 Co-Op Employment Business Tech			. 3	0	
Tenth Term 9205 Co-Op Employment Business Tech	2926	Principles of Management	. 3	0	
9205 Co-Op Employment Business Tech		0 k goole	17	5	ue!
9205 Co-Op Employment Business Tech	Tenth	Term	e Manue	L Maco	A P
			. 3	40	
	3203				_

Math Electives: 1124, 1126, 127, 1128, 1141 Social Science Electives: 1502, 1505, 1506, 1507, 1508, 1509, 15123, 1513, 1521, 1523, 1524, 1525, 1527, 1531, 1535, 1536, 1537, 1539, 1599

Business Management Technology (BM)

The Business Management Technology at CTC combines sound business training with on-the-job experience. The classroom experience centers around a well-planned management curriculum including courses in basic management principles, labormanagement relations and management theories with practical applications. Through cooperative work experience, students learn to assume managerial responsibilities, handle directions and gain valuable insights into solving management problems.

Financial Management Technology (FM)

Financial Management is a new option of Business Management designed specially to provide a combination of sound financial business training with on-the-job experience. Courses covering basic management concepts and specializing in investment management techniques, financial law and investment tax principles provide the necessary background for careers in the financial industry.

Business Management Technology Curriculum

	Hours Per	Week	Credit
s study all of the major modern graphic orts.	Class	Lab	Hours
■ First Term Of bedfind too ≥i man good and to a			
1001 English Composition I	3	0	3

1850	Financial Analysis	4 2		4
	Principles of Marketing I	3		3
2911	Principles of Accounting I	3	2	3
2925	Business Principles		0	3
	708 h Alas Tananan Marananan In		5	19
Secon	nd Term	PULL	100	1728
9201	Co-Op Employment Business Tech	4	40	3
Third				12
1002	English Composition II	3	0	3
1123	Computerized Financial Analysis	3	10071	4
	Principles of Salesmanship			3
2902	Principles of Marketing II	3	0	3
	Principles of Accounting II	3	2	3
2926	Principles of Management	3_	0	3
	Ole de charge les de de la composito de la com	18	3 1	19
	h Term	1	40	100.0
9202	Co-Op Employment Business Tech	4	40	3
Fifth 1				151
1007	Research & Argumentative Writing	3	0	3
1512	Micro Economics	3	0	3
1732	Microcomputer Systems	3	0	3
	Personnel Management	3	0	3
	Money and Banking	3	0	3
2913	Principles of Accounting III	3	_2_	_ 3
		18	2	18
Sixth				
9203	Co-Op Employment Business Tech	4	40	3
	th Term	Jes	Busin	182
1011	Business Communications	3	0	263
1535	Intro. to Labor Management Relations	3	0	3
1823	Business Law I	3	0	3
	Managerial Accounting		0	3
2960	Principles of Finance	3	0	3
2970	Contemporary Management Concepts		0	3
		18	0	18
	1 Term	-16-16-16-16-16-16-16-16-16-16-16-16-16-		
9204	Co-Op Employment Business Tech	3	40	2
	Term & zoknon	r Eco	Macri	151
	Oral Communication Elective			3
	Social Science Elective			3
	Risk and Insurance			3
	Business Law II			3
	Federal Taxation I		0	3
2975	Business Management Seminar		0	3
2	0a / rech 3 40	18	0 0	055
	Term			

*Course 1850 is a prerequisite for course 1732. Oral Communication Electives: 1020, 1024

Oral Communication Electives: 1020, 1024 Social Science Electives: 1502, 1505, 1521, 1539

A competency-based math test will be administered to all entering Business Technology students. Its purpose is to start students into a math sequence which is more compatible to their level of experience and aptitude.

Financial Management Technology Curriculum

ogy Curriculum	Hours Pe	er Week	Credit
	Class	Lab	Hours
■ First Term			
1001 English Composition I	. 3	0	3
1122 Financial Analysis	. 4	0	4
1850 Computerized Business Applications		3	3

Tenth 9205	Term Co-Op Employment Business Tech	. 3	40	
£ .	anagement Seminar 3 0		S Busin	70
29/3		18		11
	Business Management Seminar			
	Investment Tax			
	Financial Law			
1515	Intro to Labor Management Relations	. 3	0	
	Term 6 designation Elective		0	
9204	Co-Op Employment Business Tech	. 3	40	rio
Eightl	usy Management Concepts 3 0	togras	anco 0	1//
		18	0	NOT
	Contemporary Management Concepts			
	Investment Management I			
2960	Principles of Finance	. 3	0	
2921	Managerial Accounting	. 3	0	
1823	Business Law I	. 3	0	
	Business Communications	. 3	0	
Sever	loyment Business Tech maT dat	qin3 qi	3 Co-C	O!
Sixth 9203	Term B Co-Op Employment Business Tech	. 4	40	
1	Banking Banking III 3 2	18	2	FY
2713				100
2913	Principles of Accounting III	2	2	
	Money and Banking			
	Personnel Management			
	Microcomputer Systems	-		
	Micro Economics		0	
	Research & Argumentative Writing		0	
Fifth 7			th Terro	TILE O
	h Term Co-Op Employment Business Tech	. 4	40	
8	Nanagentent 3 0			357
E	Accounting II			
	Principles of Management			
	Principles of Accounting II			
	Principles of Marketing II			
	Principles of Salesmanship			
	Computerized Financial Analysis		116	
1002	English Composition II	. 3	0	
Third			0-00	100
	d Term Co-Op Employment Business Tech	. 4	40	
<u> </u>	ntiples 3 0	inti seo	misuB 7	FSI
	Accounting 1	18	0015	ıī
2925	Principles of Accounting I	. 3	0	
2911				

CLA

Chef Technology (CH)

The Chef Technology program leads to the awarding of an associate degree. Students will be trained in all aspects of Culinary Arts including soups, sauces, butchery, vegetable cookery, meat and fish cookery, pastry, hors d'oeuvres, ice and tallow carving, garne manger and all other fields of culinary management.

The program is accredited by the American Culinary Federation and The City and Guilds of London Institute.

Chef Technology Curriculum

	Hours Per	Week	Credit
<u> </u>	Class	Lab	Hours
■ First Term			
1001 English Composition I	Inch A purel will be size 3 mm	0	3

2801 2822 (2827 1822 (2827 1822 (2827 1822 (2828 1828 (2828 (2828 1828 (282	Co-Op Employment Business Tech Term Cood & Beverage Cost Control Cood and Beverage Lab I Chef Basic Cookery II Principles of Accounting I Business Principles Term Co-Op Employment Business Tech Perm Co-Op Employment Business Tech Cood & Beverage Lab II Chef Advanced Cookery Principles of Accounting II Chef Advanced Cookery Principles of Accounting II Chef Advanced Cookery Principles of Accounting II Chef Advanced Cookery	3 2 2 16 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4 4 10 0 0 0 0 4 4 2 0 10 4 4 2 0 4 4 2 0 4 0 4 0 0 0 0 0 0 0 0	distribution of the control of the c
2822 (2827 2827 2827 2827 2827 2827 2828 2823 2925 2823 2925 2823 2925 2824 282	Chef Basic Cookery I Butchery & Fish Management d Term Co-Op Employment Business Tech Ferm Finglish Composition II Math Elective II Food & Beverage Cost Control Food and Beverage Lab I Chef Basic Cookery II Principles of Accounting I Business Principles Term Co-Op Employment Business Tech Perm Introduction to Sociology Menu Production/Purchasing Food & Beverage Lab II Chef Advanced Cookery Principles of Accounting II Introduction to Nutrition	2 2 4 3 4 3 3 3 3 3	4 4 10 0 0 0 0 4 4 2 0 10 4 4 2 0 4 4 2 0 4 0 4 0 0 0 0 0 0 0 0	and a second sec
Second 9201 (1002 11002 112x / 2802 12802 12925 12	Butchery & Fish Management d Term Co-Op Employment Business Tech Ferm Finglish Composition II Math Elective II Food & Beverage Cost Control Food and Beverage Lab I Chef Basic Cookery II Principles of Accounting I Business Principles Ferm Co-Op Employment Business Tech Perm Co-Op Employment Business Tech Perm Food & Beverage Lab II Chef Advanced Cookery Principles of Accounting II Introduction to Nutrition	2 16 4 3 3 0 2 3 3 3 3 3 3 3	10 0 0 0 0 4 4 2 0 10 40 40 40	dy:
Second 9201 (9201 (1002 1102	d Term Co-Op Employment Business Tech Term English Composition II Math Elective II Food & Beverage Cost Control Tood and Beverage Lab I Chef Basic Cookery II Principles of Accounting I Business Principles Term Co-Op Employment Business Tech Term Tood & Beverage Lab II Chef Advanced Cookery Principles of Accounting II Chef Advanced Cookery Principles of Accounting II Introduction to Nutrition	16 4 3 4 3 2 3 3 3 3 3 3 3 3 3 3	40 0 0 0 4 4 2 0 10 40 40	distribution of the control of the c
9201 (Co-Op Employment Business Tech Term Cood & Beverage Cost Control Cood and Beverage Lab I Chef Basic Cookery II Principles of Accounting I Business Principles Term Co-Op Employment Business Tech Perm Co-Op Employment Business Tech Cood & Beverage Lab II Chef Advanced Cookery Principles of Accounting II Chef Advanced Cookery Principles of Accounting II Chef Advanced Cookery Principles of Accounting II Chef Advanced Cookery	3 4 3 0 2 3 3 3 3 3 3 0 2	0 0 0 4 4 2 0 10	constant of the constant of th
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	Co-Op Employment Business Tech	4	40	787
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1502 I	Human Relations	3	0	
	Micro Economics		0	
	Computerized Business Applications		3	ins
2825 I	Pastry & Confectionary	4	8	201
2928 1	Hotel Restaurant Accounting		0	_
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9204 (Co-Op Employment Business Tech	3	40	
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2805	ood & Beverage Supervision	3	0	all le
2821 9	Sales Techniques	3	0	1196
	Classical Cookery			
	ons and management theories with and cooperative work experience.			
Tenth 1	anagenal responsibilities, hand mre	m emu	226 01	m
	Co-Op Employment Business Tech			

Math Elective I: 1120,. 1121

Math Elective II: 1121, 1122

A competency-based math test will be administered to all entering Business Technology students. Its purpose is to start students into a math sequence which is more compatible to their level of experience and aptitude.

Graphic Communications Technology (GC)

At CTC, modern computerized typesetting equipment, letterpress and offset presses, screen printing, ancillary equipment are combined with experienced instructors to provide a quality graphic arts program.

Although students study all of the major modern graphic arts processes, the scope of the program is not limited to the development of craftsmanship. The Graphic Communications program

also provides mid-management training, as well as technical knowledge.

Flexography is a new option of the Graphic Communications program. Flexography is used to print on plastic, corrugated boxes and pressure sensitive lables. Students will become familiar with delicate halftone and color process printing, laser etched continuous print cylinders and photopolymer coated cylinder.

Graphic Communications Technology Curriculum

NEED TO		Hours Pe Class	r Week Lab	Cred
First T	fel spells	Ciuss		.100
101001202	English Composition I	3	0	3
	Introduction to Technical Mathematics		0	00 4
			0	CAT F
	Layout & Design		0	3
1403	Advertising Typography	2	6	4
1415	Graphic Arts Processes	2	3	3
2925	Business Principles	3	0	_ 3
		17	9	20
	nd Term	SET Y	of boo	Sec
9201	Co-Op Employment Business Tech	4	40	05e3
Third	The state of the s	(I)	1197 b	Tirks
1002	English Composition II	3	0	3
	Cold Type Process	inell'auto	9	4
1449	Estimating Preparation	2	3	3
1460	Bindery Method/Procedures	2	3	3
1512	Micro Economics	3 6	0	3
		2		
1050	Computerized Business Applications	2_	3	3
		13	18	19
Fourt	h Term	Do Ernolo	PO CO-	DOP.
9202	Co-Op Employment Business Tech	4	40	3
Fifth 1		W legin	O Jeel	TOT
	Effective Speaking	3	0	3
	Screen Printing	1	9	4
1450	Estimating	2	3	3
1502	Human Relations	3	0	3
1810	Principles of Salesmanship		0	3
2263	Physical Science for GC	3	4	5
20	0 8	15	16	2
Sixth	Town		meet n	STATE
	Co-Op Employment Business Tech	4	40	3,46
Sever	ath Term	103.7 (2	T ethero	ruć -
	Research & Argumentative Writing	3	0	30 3
1410	Curvey of Printing Inke		0	
1419	Survey of Printing Inks		0	3513
	Relief Presswork I			4
	Photolithography I		3	3
1823	Business Law I	3	0	1813
2909	Office Accounting I		2	0053
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	Layout & Design			3
1401	Advertising Typography		6	4
1403	Graphic Arts Processes	2	0	
				3
2925	Business Principles			003
1	E 81	17	9	20
	nd Term			
9201	Co-Op Employment Business Tech	4	40	3
Third			птаТ Б	Thir
1002	English Composition II	3	0	3
1421	Cold Type Process	W.M. Been	9	4
1449	Estimating Preparation	2	3	3
1460	Bindery Method/Procedures	23	3	
	Micro Economics			08.3
1850	Computerized Business Applications		3	
1030	Computerized business Applications	0 12	10	19
C .	8 0	13	10	19
	h Term Co-Op Employment Business Tech	1	10	2
9202	Co-Op Employment business lech	loval aC		000
Fifth				
1020	Effective Speaking	3	0	3
1429	Screen Printing	ned Con	9	4
1450	Estimating	2	3 8	083
1502	Human Relations	3	0	3
	Principles of Salesmanship			
2262	Physical Science for GC	3	4	5
2203				-
2203	Accounting II	15	16	21
	Nutrition 3 0	15	16	21
Sixth	Term II	noitbub	ontral 0	413
Sixth 9203	Term # Co-Op Employment Business Tech	4	40	3 twi2
Sixth 9203 Sever	Term III Co-Op Employment Business Tech	4	40	813 Sixt 920
Sixth 9203 Sever 1007	Term	4	40	3 5 920 920
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Sixth 9203 Sever 1007 1419 1430 1482 1823 2909	Term Co-Op Employment Business Tech Term Research & Argumentative Writing Survey of Printing Inks Relief Presswork I Flexo Photography Business Law I Office Accounting I	4 3 3 1 2 3 3 15	40 0 0 9 3 0 2	3 9030 3 3 6 4 3 8 8 3 3 0 8 3
Sixth 9203 Sever 1007 1419 1430 1482 1823 2909 Eight 9204	Term Co-Op Employment Business Tech Ath Term Research & Argumentative Writing Survey of Printing Inks Relief Presswork I Flexo Photography Business Law I Office Accounting I	4 3 3 1 2 3 3 3	40 0 0 9 3 0 2 14	3 3 3 4 3 3 3 19
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Sixth 9203 Sever 1007 1419 1430 1482 1823 2909 Eightl 9204 Ninth 1010	Term Co-Op Employment Business Tech	4 3 1 0 2 0 3 3 15 3 3 3 3 3 3	40 0 0 9 3 0 2 14 40	3 3 3 4 3 3 3 19
Sixth 9203 Sever 1007 1419 1430 1482 1823 2909 Eight 9204 Ninth 1010 1428	Term Co-Op Employment Business Tech Term Research & Argumentative Writing Survey of Printing Inks Relief Presswork I Flexo Photography Business Law I Office Accounting I Term Co-Op Employment Business Tech Technical Writing I Management Survey	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3	40 0 0 9 3 0 2 14	3 3 3 4 3 3 19
Sixth 9203 Sever 1007 1419 1430 1482 32909 Eightl 9204 Ninth 1010 1428 1431	Term Co-Op Employment Business Tech Term Research & Argumentative Writing Survey of Printing Inks Relief Presswork I Flexo Photography Business Law I Office Accounting I Term Technical Writing I Management Survey Relief Presswork	4 3 3 1 2 3 3 3 3 3 3 3 3 3	40 0 0 9 3 0 2 14 40	3 3 3 4 3 3 3 3 7 19
Sixth 9203 Sever 1007 1419 1430 1482 1823 2909 Eightl 1010 1428 1431 1481	Term Co-Op Employment Business Tech Term Research & Argumentative Writing Survey of Printing Inks Relief Presswork I Flexo Photography Business Law I Office Accounting I Term Co-Op Employment Business Tech Technical Writing I Management Survey Relief Presswork Photolithography II	4 3 3 1 2 3 3 3 3 3 3 3 2 3	40 0 0 9 3 0 2 14 40 0 0 0 13 3	3 3 3 4 3 3 3 19
Sixth 9203 Sever 1007 1419 1430 1482 1823 2909 Eightl 1010 1428 1431 1481	Term Co-Op Employment Business Tech Term Research & Argumentative Writing Survey of Printing Inks Relief Presswork I Flexo Photography Business Law I Office Accounting I Term Co-Op Employment Business Tech Technical Writing I Management Survey Relief Presswork Photolithography II Introduction to Sociology	4 3 1 2 3 3 15 3 3 3 3 3 3 3 3 3 3 3	40 0 0 9 3 0 2 14 40 0 0 0 13 3 0	3 3 3 4 3 3 3 19 2 2
Sixth 9203 Sever 1007 1419 1430 1482 1823 2909 Eightl 1010 1428 1431 1481	Term Co-Op Employment Business Tech Term Research & Argumentative Writing Survey of Printing Inks Relief Presswork I Flexo Photography Business Law I Office Accounting I Term Co-Op Employment Business Tech Technical Writing I Management Survey Relief Presswork Photolithography II	4 3 3 1 2 3 .	40 0 0 9 3 0 2 14 40 0 0 0 13 3	3 3 3 4 3 3 3 3 7 19
Sixth 9203 Seven 1007 1419 1430 1482 1823 2909 Eightl 1010 Ninth 1010 1428 1431 1428 1431	Term Co-Op Employment Business Tech Ath Term Research & Argumentative Writing Survey of Printing Inks Relief Presswork I Flexo Photography Business Law I Office Accounting I Term Co-Op Employment Business Tech Technical Writing I Management Survey Relief Presswork Photolithography II Introduction to Sociology	4 3 3 1 2 3 .	40 0 0 9 3 0 2 14 40 0 0 13 3 0 16	3 3 3 4 3 3 3 19 2 2
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Hotel-Restaurant Management Technology (HR)

CTC's Hotel-Restaurant Management students receive comprehensive knowledge of all the departments and operations found in the hospitality industry. Students are involved early in these fields through paid cooperative work experience so they can set their goals on the type of career they wish to follow in industry.

110

Hotel-Restaurant Technology Curriculum

	Hams Fee Wast	Hours Pe Class	r Week Lab	Ci
Ein-47	Name and the same	Ciass	Lab	п
First 7		2	0	
	English Composition I			
	Intro to Business Mathematics			
	Food & Bev Sanitation/Safety/Service			
	Introduction to Hotel Management			
2925	Business Principles	. 3	0	
	Administrative Typing			
	e v	18	3	_
Secon	nd Term	nite	of bite	
	Co-Op Employment Business Tech			
Third			useT br	
1002	English Composition II	. 3	0	
1121	Business Mathematics	. 4	0	
	Human Relations			
	Food & Beverage Cost Control			
2808	Food and Beverage Lab I	. 0	4	
	Hotel Front Offfice Night Audit Proc			
2911	Principles of Accounting I	3	2	
		19	8	
Fourt	h Term	and of	Later Cont	OLE
	Co-Op Employment Business Tech	. 4	40	
Fifth '	Term E and see	g sylp	967 0	SOL
1011	Business Communications	. 3	0	
	Menu Production/Purchasing			
	Food & Beverage Lab II		4	
	Hotel Executive Housekeeping		2	
2013	Dring and Dragtings of Little Litters	. 3		
	Princ and Practices of Hotel Mgmt			
	Principles of Accounting II		2	
4130	Introduction to Nutrition	3_	0	_
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9203	Co-Op Employment Business Tech	. 4	40	
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1512	Micro Economics			
	Introduction to Sociology	. 3	0	
1521			3	
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1521 1850 2804 2814 2928 Eight 9204 Ninth 1020 1825 1832	Computerized Business Applications Catering Banquets Beverage Mgmt Hotel Maintenance Hotel Restaurant Accounting Term Co-Op Employment Business Tech Term Effective Speaking Hotel Law Personnel Management	. 2 . 3 . 3 . 17	0 0 0 0 0 0 0	290 024 024 141 141
1521 1850 2804 2814 2928 Eight 9204 Ninth 1020 1825 1832 2805	Computerized Business Applications Catering Banquets Beverage Mgmt Hotel Maintenance Hotel Restaurant Accounting Term Co-Op Employment Business Tech Term Effective Speaking Hotel Law Personnel Management Food & Beverage Supervision	. 2 . 3 . 3 . 17	0 0 0 3 40	150 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1521 1850 2804 2814 2928 Eightl 9204 Ninth 1020 1825 1832 2805 2807	Computerized Business Applications Catering Banquets Beverage Mgmt Hotel Maintenance Hotel Restaurant Accounting Term Co-Op Employment Business Tech Term Effective Speaking Hotel Law Personnel Management Food & Beverage Supervision Basic Food Hotel/Restaurant	. 2 . 3 . 3 . 17	0 0 0 3 40	1913 100 101 101 101 101 101
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A competency-based math test will be administered to all entering Business Technology students. Its purpose is to start students into a math sequence which is more compatible to their level of experience and aptitude.

Loss Control - Security Technology (LC)

CTC's Loss Control program is one of the first of its kind in the country. The curriculum was established in collaboration with the tri-state chapter of the American Society of Industrial Security. The program offers classroom instruction and practical training requirements of private security practitioners.

Because of the nature of co-op work schedules, the student can attend classes during the day or evening.

Loss Control Technology Curriculum

Composition I Police Officer Training LC Security Administration Administration I es of Management Employment Business Tech Composition II ction to Business Mathematics al Security Administration II nentals of Fire Protection Management Employment Business Tech	. 3 . 4 . 3 . 3 . 3	0 8 0 0 0 8 40	3 8 3 3 3 20 3 4 3 3 3 3 3 19
Composition I Police Officer Training LC Security Administration / Administration I les of Management Employment Business Tech Composition II ction to Business Mathematics al Security / Administration II nentals of Fire Protection / Management Employment Business Tech	. 3 . 4 . 3 . 3 . 16 . 4 . 3 . 4 . 3 . 3 . 3 . 3 . 3 . 19	8 0 0 0 8 40	8 3 3 20 3 4 3 3 3 3 3
Police Officer Training LC Security Administration Administration I es of Management Employment Business Tech Composition II ction to Business Mathematics al Security Administration II nentals of Fire Protection Management Employment Business Tech	. 4 . 3 . 3 . 16 . 4 . 3 . 3 . 3 . 3 . 3 . 3	8 0 0 0 8 40	8 3 3 20 3 4 3 3 3 3 3
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Employment Business Tech	. 3 16 . 4 . 3 . 3 . 3 . 3 . 3	0 8 40 0 0 0 0 0 0	3 20 3 4 3 3 3 3 3
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ction to Business Mathematics	. 4 . 3 . 3 . 3 . 3	0 0 0 0 0	4 3 3 3 3
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Psych: Internal World	. 3	0	3
Psych: Internal World			3
Psych: Internal World	. 2		3
Psych: Internal World			
Psych: Internal World	17	3	18
Psych: Internal World		-) CP
	Psych: Internal World	Interrogation	Interrogation

Social Science Electives: 1024, 1502

A competency-based math test will be administered to all entering Business Technology students. Its purpose is to start students into a math sequence which is more compatible to their level of experience and aptitude.

Managerial Accounting Technology (MG)

Managerial Accounting, for those with a high degree of skill in accounting, provides knowledge of business fundamentals and an understanding of accounting skills, and how these systems are applied in small and large businesses and in industrial systems.

In addition to preparation in managerial, financial and tax accounting, students will be given a sound background in administrative skills and management philosophy.

Managerial Accounting Technology Curriculum

	Sement	lours Pe Class	Lab	Credi
	Janagement	Class	Lab	nours
First 1		o seldin	must Z	Ohiz
	English Composition I		0	3
	Business Mathematics		0	4
	Risk and Insurance	. 3	0	3
1850	Computerized Business Applications	. 2	3	3
	Principles of Accounting I		2	3
	Business Principles		0	3
	business timelples	-		
		18	5	19
Seco	nd Term	armout	e wagoù	inches
9201	Co-Op Employment Business Tech	. 4	40	3
Third				
100x	English Composition Elective	. 3	0	3
1122	Financial Analysis	. 4	0	4
	Business Law I		0	3
	Electronic Spreadsheets		2	3
	Principles of Accounting II		2	3
		3	0	3
2917	Federal laxation I			
		18	4	19
	h Term	PERSONAL PROPERTY.	DOI IN	TONE S
9202	Co-Op Employment Business Tech	. 4	40	3
Fifth 1		My lo 1	160 6	ntegr
	Research & Argumentative Writing		0	3
1512	Micro Economics	. 3	0	3
1824	Business Law II	. 3	0	3
2913	Principles of Accounting III	. 3	2	3
	Cost Accounting I			3
	Principles of Management		0	3
2320	Times of Management	18	2	18
		10		
Sixth			40	100
9203	Co-Op Employment Business Tech	. 4	40	3
Cover	ath Term			
		. 3	0	3
1011	Business Communications		and the same of	
1011	Social Science Elective		0	3
1011 15xx	Social Science Elective	. 3	and the same of	3
1011 15xx 2903	Social Science Elective	. 3	0	PART TEST
1011 15xx 2903 2915	Social Science Elective	. 3 . 3 . 3	0 0 0	3
1011 15xx 2903 2915 2918	Social Science Elective Survey of Marketing Cost Accounting II Federal Taxation II	. 3 . 3 . 3	0 0 0 0	3 3 3
1011 15xx 2903 2915 2918	Social Science Elective	. 3 . 3 . 3 . 3	0 0 0 0 0	3 3 3 3
1011 15xx 2903 2915 2918	Social Science Elective Survey of Marketing Cost Accounting II Federal Taxation II	. 3 . 3 . 3	0 0 0 0	3 3 3
1011 15xx 2903 2915 2918 2919	Social Science Elective Survey of Marketing Cost Accounting II Federal Taxation II Intermediate Accounting I	. 3 . 3 . 3 . 3 . 3	0 0 0 0 0	3 3 3 3 18
1011 15xx 2903 2915 2918 2919 Eightl 9204	Social Science Elective Survey of Marketing Cost Accounting II Federal Taxation II Intermediate Accounting I Term Co-Op Employment Business Tech	. 3 . 3 . 3 . 3 . 3 . 3	0 0 0 0 0 0	3 3 3 3
1011 15xx 2903 2915 2918 2919 Eightl 9204	Social Science Elective	. 3 . 3 . 3 . 3 . 3 . 18	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 18
1011 15xx 2903 2915 2918 2919 Eightl 9204 Ninth 102x	Social Science Elective	. 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 18
1011 15xx 2903 2915 2918 2919 Eightl 9204 Ninth 102x 15xx	Social Science Elective	. 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3	0 0 0 0 0 0 0 0	3 3 3 18 2
1011 15xx 2903 2915 2918 2919 Eightl 9204 Ninth 102x 15xx 1851	Social Science Elective Survey of Marketing Cost Accounting II Federal Taxation II Intermediate Accounting I Term Co-Op Employment Business Tech Term Oral Communication Elective Social Science Elective Auditing	. 3 . 3 . 3 . 3 . 3 . 18	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 18 2
1011 15xx 2903 2915 2918 2919 Eightl 9204 Ninth 102x 15xx 1851 2920	Social Science Elective	. 3 . 3 . 3 . 3 . 3 . 18	0 0 0 0 0 0 0 0	3 3 3 18 2

2960 Principles of Finance	3	0	3
To Personals II S III	18	0	18
■ Tenth Term 9205 Co-Op Employment Business Tech			2 105
English Composition Electives: 1002, 1008, 1009, 1010			222

Social Science Electives: 1502, 1505, 1506, 1508, 1509, 1521, 1523, 1525,

Ornamental Horticulture Technology (OH)

The Ornamental Horticulture program prepares students for positions in the Landscape Horticulture industry. Hands-on lab experiences are blended with classroom teaching to provide students with the skill and knowledge necessary to excel in this growing field.

Because of the unique seasonal employment requirements of horticulturally related jobs, this program follows a different co-op schedule. Ornamental Horticulture students spend two terms (during the growing season) in cooperative employment during each of the two years in the program.

Ornamental Horticulture Technology Curriculum

		Hours Per		Credi
NAME OF	instruction from cartifled property and	Class	Lab	Hour
First 1	Child Table 100 To the part of the court of	3	U DON'T	200
	English Composition I		O	3
	Math Elective	4	0	4
1502			0	3
3500	Orient to Horticulture Occupation	19	0	1 2
3502	Horticulture Science	2	2	3
3504	Woody Plant Materials I			
•		13	3	17
	nd Term English Composition II	3	0	3
22xx	Chemistry Elective	3	2	4
2925	Business Principles	3	0	3
3510	Small Engine Maintenance & Repair	2	3	3
	Landscape Management	2	3	3
noll i	del 224D	13	8	16
	at the second se	The Court	mrsf t	AO I
Third	Term Social Science Elective	3	0	3
	Principles of Accounting I	3	2	3
	Soils & Plant Nutrition	3112	0	3
3500	Principles of Landscape Design	. 2	3	3
3528	Greenhouse Management	2	3	0013
	Horticulture Seminar I	1	1	1
3330	Trotteditare Seminari	14	9	16
Fourt	h Term	one Op Empl	and Te	920
	Co-Op Employment OH Tech	1	40	3
Fifth 1	ferm E gmittel grideling and a	& rimes	7 Ross	091
	Technical Writing I	3	0	3
3505	Herbaceous Plant Material	2	2	3
	Turfgrass Management		3	3
	Landscape Construction		5	3
3521	Entomology/Plant Pathology	2	2	3
		10	12	15
		7.00	roll illin	Fos
Sixth	Term			
Sixth 9502	Term Co-Op Employment OH Tech	on lac	40	3
9502	Term Co-Op Employment OH Tech	gm I aC	40	3
9502 Sever	Co-Op Employment OH Tech	3	0	3
9502 Sever 102x	Co-Op Employment OH Tech		0 0	Unit
9502 Sever 102x 151x	ath Term Oral Communication Elective	3	0	3

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3	0	3
3	. 0	3
0	0	3
2	4	3
1	1	1
	-	3
9	5	16
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1	40	2
		108
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Property Management Technology (PM)

Technical Electives: 3506, 3507, 3519, 3533, 3534, 3535, 3540, 3544

CTC was the first college in the country to offer an associate degree in Property Management. The curriculum is based on textbook course materials, class discussion and case studies. Publications of the Institute of Real Estate Management and the National Association of Realtors also are utilized.

Students receive instruction from certified property managers. The curriculum includes required courses for the Ohio real estate license.

In many cases co-op employment requires a state real estate license. The program is such that an academic half-day schedule may be maintained until degree requirements are satisfied.

As in most technologies, co-op employment is conditioned upon the availability of job sites.

Property Management Technology Curriculum

		Hours Pe	r Week	Credi
		Class	Lab	Hours
First 1	erm erm			
1001	English Composition I		0	3
1121	Business Mathematics	4		4
2925	Business Principles	3	0	3
2931	On-Site Property Management I	3	1	3
2951	Real Estate Principles & Practices	3	0	3
3005	Administrative Typing	2	3	3
			4	19
Secor	nd Term			
9201	Co-Op Employment Business Tech	4	40	3
Third	Term	ham by C	mod m	960
	Research & Argumentative Writing		0	3
112x	Math Elective	4	0	4
1850	Computerized Business Applications	2	3	3
2926	Principles of Management	3	0	3
2932	On-Site Property Management II	3	1	3
2953	Real Estate Law	3	0	3
		18	4	19
Fourt	h Term		t Terror	twie M
9202	Co-Op Employment Business Tech	4	40	3
Fifth 1	Term Term	mas	T dina	un2 B
1011	Business Communications	3	0	3
1502	Human Relations	3	0	3
2911	Principles of Accounting I	3	2	3
2933	Executive Level Property Mgmt	3	1	3

Seventh Term					
Sixth Term 9203 Co-Op Employment Business Tech 4 40 3 Seventh Term 1513 Macro Economics 3 0 3 3 3 2901 Principles of Marketing I 3 2 3 3 2901 Principles of Marketing I 3 2 3 3 3 3 3 3 3 3	2955	Real Estate Appraisal I-Residential	. 3	0	3
Sixth Term 9203 Co-Op Employment Business Tech 4 40 3 3 Seventh Term 1513 Macro Economics 3 0 3 3 1732 Microcomputer Systems 3 0 3 3 2901 Principles of Marketing I 3 2 3 2912 Principles of Accounting II 3 2 3 2913 Institutional Property Management 3 0 3 2954 Real Estate Finance 3 0 3 2954 Real Estate Finance 3 0 3 2954 Real Estate Finance 3 0 3 18 2 18 19 19 19 19 19 10 19 19 19 19 10 10 19 19 11 10 10 10 12 10 10 10 12 10 10 10 13 10 10 14 10 10 15 16 10 16 16 10 17 10 10 17 10 10 18 10 18 18 10 18 18 10 18 18 10 18 10 10 10 10 10 10 10 10					
Sixth Term 9203 Co-Op Employment Business Tech 4 40 3 Seventh Term 1513 Macro Economics 3 0 3 1732 Microcomputer Systems 3 0 3 2901 Principles of Marketing I 3 2 3 2912 Principles of Accounting II 3 2 3 2936 Institutional Property Management 3 0 3 2954 Real Estate Finance 3 0 3 2954 Real Estate Finance 3 0 3 2954 Real Estate Finance 3 0 3 18 2 18 18 18 18 19 19 19 19 10 19 19 19 10 19 19 19 11 19 19 19 12 19 19 19 13 19 19 14 19 19 15 19 19 16 19 19 17 19 19 18 0 18 18 10 18 19 19 19 10 19 19 11 19 19 12 19 19 13 19 19 14 19 19 15 19 19 16 19 19 17 19 19 18 0 18 18 10 18 18 10 18 19 19 19 10 19 19 11 19 19 12 19 19 13 19 19 14 19 19 15 19 19 16 19 19 17 19 19 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 19 19 19 19 19 10 19 19 10 19 19 11 19 19 12 19 19 13 19 19 14 19 19 15 19 19 16 19 19 17 19 19 18 19 19 19 19 19 19 19				-	-
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Seventh Term			. 4	40	3
1513 Macro Economics	3203	(CMA) uporto metal persona	A Isi	PARKE S	FIR V
1732 Microcomputer Systems 3 0 3 3 2901 Principles of Marketing 1 3 2 3 3 2912 Principles of Accounting 1 3 2 3 3 2936 Institutional Property Management 3 0 3 3 2954 Real Estate Finance 18 2 18 2 18 3 3 3 3 3 3 3 3 3	Sever	nth Term		107	
1732 Microcomputer Systems 3 0 3 3 2901 Principles of Marketing 1 3 2 3 3 2912 Principles of Accounting 1 3 2 3 3 2936 Institutional Property Management 3 0 3 3 2954 Real Estate Finance 18 2 18 2 18 3 3 3 3 3 3 3 3 3	1513	Macro Economics	. 3	0	no i 3
2901 Principles of Marketing 3 0 3 3 0 3 2 931 2912 Principles of Accounting 3 2 3 3 2 3 3 2936 Institutional Property Management	1732	Microcomputer Systems	. 3	0	3
2936 Institutional Property Management 3 0 3 2954 Real Estate Finance 3 0 3 18 2 18 Eighth Term 9204 Co-Op Employment Business Tech 3 40 2 Ninth Term 102x Oral Communication Elective 3 0 3 15xx Social Science Elective 3 0 3 15x4 Stress Management 3 0 3 1832 Personnel Management 3 0 3 2902 Principles of Marketing II 3 0 3 2935 Property Management Case Study 3 0 3	2901	Principles of Marketing I	. 3		3
2936 Institutional Property Management 3 0 3 2954 Real Estate Finance 3 0 3 18 2 18 Eighth Term 9204 Co-Op Employment Business Tech 3 40 2 Ninth Term 102x Oral Communication Elective 3 0 3 15xx Social Science Elective 3 0 3 15x4 Stress Management 3 0 3 1832 Personnel Management 3 0 3 2902 Principles of Marketing II 3 0 3 2935 Property Management Case Study 3 0 3	2912	Principles of Accounting II	. 3		3
Fighth Term 9204 Co-Op Employment Business Tech 3 40 2 Ninth Term 102x Oral Communication Elective 3 0 3 15xx Social Science Elective 3 0 3 15x4 Stress Management 3 0 3 1832 Personnel Management 3 0 3 2902 Principles of Marketing II 3 0 3 2935 Property Management Case Study 3 0 3 18 0 18 18 18 18 18 18		Institutional Property Management	. 3	0	3
Fighth Term 9204 Co-Op Employment Business Tech 3 40 2 Ninth Term 102x Oral Communication Elective 3 0 3 15xx Social Science Elective 3 0 3 1524 Stress Management 3 0 3 1832 Personnel Management 3 0 3 2902 Principles of Marketing II 3 0 3 2935 Property Management Case Study 3 0 3 Tenth Term 18 0 18 Tenth Term 18	2954	Real Estate Finance	. 3	0	3
Ninth Term			18	2	18
9204 Co-Op Employment Business Tech 3 40 2 Ninth Term 102x Oral Communication Elective 3 0 3 15xx Social Science Elective 3 0 3 1524 Stress Management 3 0 3 1832 Personnel Management 3 0 3 2902 Principles of Marketing II 3 0 3 2935 Property Management Case Study 3 0 3 18 0 18	n ri-bal		OFFIC	SHIME ST	V Distin
102x Oral Communication Elective 3 0 3 15xx Social Science Elective 3 0 3 1524 Stress Management 3 0 3 1832 Personnel Management 3 0 3 2902 Principles of Marketing II 3 0 3 2935 Property Management Case Study 3 0 3 18 0 18 0 18			. 3	40	2
15xx Social Science Elective 3 0 3 1524 Stress Management 3 0 3 1832 Personnel Management 3 0 3 2902 Principles of Marketing II 3 0 3 2935 Property Management Case Study 3 0 3 18 0 18 0 18	■ Ninth	Term musicuoissus) vv	olon	lech
1524 Stress Management 3 0 3 1832 Personnel Management 3 0 3 2902 Principles of Marketing II 3 0 3 2935 Property Management Case Study 3 0 3 18 0 18 0 18	102x	Oral Communication Elective	. 3	0	3
1832 Personnel Management 3 0 3 2902 Principles of Marketing II 3 0 3 2935 Property Management Case Study 3 0 3 18 0 18 18	15xx	Social Science Elective	. 3	0	3
2902 Principles of Marketing II	1524	Stress Management	. 3	0	3
2935 Property Management Case Study 3 d 0 0 3	1832	Personnel Management	. 3	0	3
BOA - Risk and Insurance 10 Tests ComputerLed Business Applications 10 Tests ComputerLed Business Applications 10 Tests	2902	Principles of Marketing II	. 3	0	3
1804 - Rosk and Insurance 1850 Computerized Business Applications mail HinaT	2935	Property Management Case Study	. 3	0	1003
e lenth term			18	0	18
e lenth term	6	U E	and bri	- Kisk e	PUBT
		ierm			
9205 Co-Op Employment Business Tech	9205	Co-Op Employment Business Tech	. 3	40	2
10					105

A competency-based math test will be administered to all entering Business Technology students. Its purpose is to start students into a math sequence which is more compatible to their level of experience.

Real Estate Technology (RE)

Recommended courses: College Prep and Business courses, Typing, Math

If you are outgoing and flexible, if you are looking for a career in sales, management or finance, and if you want a real challenge, the Real Estate program is for you. This program provides an educational foundation which satisfies the requirements for licensing as well as future requirements for becoming a real estate broker. In addition, all coursework for the GRI designation is offered as an integral part of the curriculum.

Real Estate positions are available through local and national real estate firms, financial institutions, insurance companies and most major corporations. Many students combine this program with the Property Management curriculum to increase employment opportunities.

Real Estate Technology Curriculum

		lours Pe	ours Per Week		irs Per Week		ours Per Week		Per Week Cr	Credit
	The state of the s	Class	Lab	Hours						
First Ter	m s Sheriya									
1001 E	nglish Composition I		0	3						
1121 B	Business Mathematics	. 4	0	4						
2925 B	Business Principles	. 3	0	3						
2951 R	Real Estate Principles & Practices	. 3	0	3						
	Real Estate Law		0	3						
	Administrative Typing		3	3						
		18	3	19						
Second	Term	priduce	HO 1	920						
9201 C	Co-Op Employment Business Tech	. 4	40	3						
Third To	erm Checking management	rayes	nO x	201						
1007 R	Research & Argumentative Writing	. 3	0	3						
112x N	Math Elective	. 4	0	4						
	Computerized Business Applications		3	3						

2940	Principles of Management	. 3	0	29 U
	Real Estate Finance	. 3	0	VEN
		18	3	1
Fourt	h Term			
9202	Co-Op Employment Business Tech	. 4	40	
Fifth 1	erm	10	SEC VALL	
1011	Business Communications	. 3	0	
1502	Human Relations	. 3	0	1
	Principles of Marketing I	. 3	.0	
2905	Money and Banking	. 3	0	
2911	Principles of Accounting I	. 3	2	JE H
2955	Real Estate Appraisal I - Residential	. 3	0	100
		18	2	10.01
4-	O C solding	1151.5550	Nerver c	ZE.
Sixth	Term	Similar	ARICO I	COS
9203	Co-Op Employment Business Tech	. 4	40	80
Sever	th Term			
MODES OF THE PARTY	Macro Economics	. 3	0	
	Microcomputer Systems	. 3	0))9
	Risk and Insurance		0	120
2902	Principles of Marketing II	. 3	0	
2912	Principles of Accounting II	. 3	2 6	nie!
	Real Estate Brokerage	. 3	0	200
	athematics	18	2	-1
	ed Business Applications	i brierio	TOTAL S	15.00 (a)04
	Co-Op Employment Business Tech	. 3	40	001
	Sangerine apprearies Frahmenenal Developmen	200172	DEN S	200
Ninth 102v	Oral Communications Elective	. 3	0	
0.0000000000000000000000000000000000000	Social Science Elective	. 3	0	
	Stress Management	. 3 0		
	Personnel Management		0	
	Real Estate Appraisal II-Income	. 3	0	
	Real Estate Seminar: Special Topics	. 3	0	
	0. 3 3	18	0	UU,
ξ '	.0 E	B. 1 (79)	Busin	SH
Tenth	7	a seldi	MINING	D. Maria
Para and a	Co-Op Employment Business Tech			Chos.

A competency-based math test will be administered to all entering Business Technology students. Its purpose is to start students into a math sequence which is more compatible to their level of experience and aptitude.

Marketing Management/Industrial Sales Technologies (MMT/SI)

The process or scope of marketing is very broad and complex.
The casual observer sees marketing only in terms of promotion.
While promotion is an important component of marketing, it is far from being the only component.

This technology examines consumer behavior; pricing practices; how, why, and where products are sold and developed.

The serious student will discover not only the challenge and excitement of marketing but the many rewarding career opportunities as well. These opportunities include sales, purchasing, advertising, marketing research, market analysis, distribution specialists and many more.

Marketing Management Technology Curriculum

		Hours Per	r Week	Credit
\$	Joyment Business Tech	Class	Lab	Hours
First 7	Term Term			
1001	English Composition I	. 3	0	3
1020	Effective Speaking	. 3	0	3
1121	Business Mathematics	. 4	0	4
	Intro to Psych: Internal World		0	3

2925	Computerized Business Applications Business Principles	3	0	022
	ployment Business Tech	18	3	201
	nd Term		erra i	bairl
9201	Co-Op Employment Business Tech	4	40	
Third		2 161	Indust	218
1002	English Composition II		0	
	Financial Analysis		0	320
	Micro Economics	3	0	
	Microcomputer Systems	3	0	
	Risk and Insurance		0	
2926	Principles of Management			TUO
	Gloyment Business Tech 4 40	19	0	202
	h Term		manT	
9202	Co-Op Employment Business Tech	4	40	
Fifth 7	ferm & bhoW lammin sho			305
1011	Business Communications	3	0	
1024	Group Dynamics & Problem Solving	3	0	
	Computerized Financial Analysis	4	0	oan,
1823	Business Law I	3	0	
	Principles of Marketing I	3	0	
2911	Principles of Accounting I	3	2	
	ployment Bysiness Tech 4 40	19	2	203
Sixth	Term	178	nth Ter	6VB
9203	Co-Op Employment Business Tech	4	40	
Sever	al Sales Techniques mraf Ath	ALSIA	Audio	815
1513	Macro Economics		0	
1810	Principles of Salesmanship		0	
	Business Law II	3	0	
2902	Principles of Marketing II	3	0	
	Money and Banking	3	0	
	Principles of Accounting II		2	
	ployment Business Tech	18	0-2	204
Eightl	n Term		mtoY r	
9204	Co-Op Employment Business Tech	3	40	
Ninth	Term	ristv	Sales	058
1832	reiseinier management i i i i i i i i i i i i i i i i i i i		0	
1817	Industrial Purchasing			
	Principles of Ratailing	3	0	
2921	Managerial Accounting	3	0	
2923	Market Concepts & Applications	3	0	
	Principles of Finance		0	tims
	playment Business Tech 3 40	18	0	205
		- mary		
15				

*3005 to be taken in place of 1850 if student has not taken high school typing.

**1850 to be taken if 3005 was taken in Term I.

A competency-based math test will be administered to all entering Business Technology students. Its purpose is to start students into a math sequence which is more compatible to their level of experience and aptitude.

Industrial Sales (SI) Technology Curriculum

				Credit
■ First T	erm			Joseph
1020	Effective Speaking	. 3	0	3
	Intro to Business Mathematics			
1810	Principles of Salesmanship	3	0	3
	Business Principles			
	Administrative Typing			
	minment Word nov essing management			

Third T 1001 E 1121 E 1813 E 2926 F 2960 F F 1002 E 1024 C 1505 E 15521 E 1850 C Sixth Te	Inglish Composition I Business Mathematics Industrial Sales Business Law I Principles of Management Principles of Finance Term Co-Op Employment Business Tech Inglish Composition II Group Dynamics & Problem Solving Intro to Psych: Internal World Introduction to Sociology	. 3 . 4 . 3 . 3 . 3 . 3 . 19	40	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1001 E 1121 E 1813 II 1823 E 2926 F 2960 F F 1002 E 1024 C 1505 II 1814 C 1850 C Sixth Te	Inglish Composition I Business Mathematics Industrial Sales Business Law I Principles of Management Principles of Finance Term Co-Op Employment Business Tech Inglish Composition II Group Dynamics & Problem Solving Intro to Psych: Internal World Introduction to Sociology	. 4 . 3 . 3 . 3 . 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200 ST
1121 E 1813 II 1823 E 2926 F 2960 F Fourth 9202 C Fifth Te 1002 E 1024 C 1505 II 1521 II 1814 C 1850 C	Business Mathematics Industrial Sales Business Law I Principles of Management Principles of Finance Term Co-Op Employment Business Tech Employment	. 4 . 3 . 3 . 3 . 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200 21 21 200 21
1121 E 1813 II 1823 E 2926 F 2960 F Fourth 9202 C Fifth Te 1002 E 1024 C 1505 II 1521 II 1814 C 1850 C	Business Mathematics Industrial Sales Business Law I Principles of Management Principles of Finance Term Co-Op Employment Business Tech Employment	. 4 . 3 . 3 . 3 . 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1
1823 E 2926 F 2960 F Fourth 9202 C Fifth Te 1002 E 1024 C 1505 I 1521 I 1814 C 1850 C	Rusiness Law I Principles of Management Principles of Finance Term Co-Op Employment Business Tech Emm English Composition II Group Dynamics & Problem Solving Intro to Psych: Internal World Introduction to Sociology	. 3 . 3 . 19 . 4	0 0 0 0	12 200
1823 E 2926 F 2960 F Fourth 9202 C Fifth Te 1002 E 1024 C 1505 I 1521 I 1814 C 1850 C	Rusiness Law I Principles of Management Principles of Finance Term Co-Op Employment Business Tech Emm English Composition II Group Dynamics & Problem Solving Intro to Psych: Internal World Introduction to Sociology	. 3 . 3 . 19 . 4	0 0 0 0	12 12 12 12 12 12 12 12 12 12 12 12 12 1
2926 F 2960 F Fourth 9202 C Fifth Te 1024 C 1505 II 1521 II 1814 C 1850 C	Term Co-Op Employment Business Tech	. 3 19 . 4	0 0 0 0 40	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Fourth 9202 C Fifth Te 1002 E 1002 E 1505 I 1521 I 1814 C 1850 C	Term Co-Op Employment Business Tech Coron Dynamics & Problem Solving Intro to Psych: Internal World Introduction to Sociology	. 3	40	20 20 20 20 20 20
Fifth Te 1002 E 1024 C 1505 In 1521 In 1814 C 1850 C	Term Co-Op Employment Business Tech	. 4	40	Ci
9202 C Fifth Te 1002 E 1024 C 1505 II 1521 II 1814 C 1850 C	Term Co-Op Employment Business Tech	. 4	40	Sign
9202 C Fifth Te 1002 E 1024 C 1505 II 1521 II 1814 C 1850 C	co-Op Employment Business Tech	. 4	40	Si
Fifth Te 1002 E 1024 C 1505 II 1521 II 1814 C 1850 C	erm Inglish Composition II	. 3	0	ist.
1002 E 1024 C 1505 II 1521 II 1814 C 1850 C	inglish Composition II	. 3	CALIFORNIA AND	iar.
1024 C 1505 II 1521 II 1814 C 1850 C	Group Dynamics & Problem Solving	. 3	CALIFORNIA AND	
1505 li 1521 li 1814 C 1850 C	ntro to Psych: Internal World		0	
1505 li 1521 li 1814 C 1850 C	ntro to Psych: Internal World		0	
1521 li 1814 C 1850 C	ntroduction to Sociology	. 3	0	
1814 (1850 (Sixth Te		. 3	0	
1850 C	Case Studies-Industrial Sales	. 3	0	
Sixth Te	Computerized Business Applications	. 2	3	
	To the term of the	17	3	0.0
	Marketing	a seldi	oring L	06
9203 (iples o	1 Princ	
	Co-Op Employment Business Tech	. 4	40	
Sevent			narej d	×
	Business Communications	. 3	0	
1512 N	Aicro Economics	. 3	0	
	Audiovisual Sales Techniques		2	
1817 li	ndustrial Purchasing	. 3	0	
1846 li	ndustrial Product Marketing I	. 3	0	
2911 P	Principles of Accounting I	. 3	2	
	(Madeing II	18	4	oje
Fi-Lab :	Term E	bne va	note it	00
Eighth 9204 (Co-Op Employment Business Tech		40	
Ninth T	erm	-	and deal	
	echnical Writing I	3	0	
	Risk and Insurance	3	0	12
	sales Management		0	
	Business Law II	. 3	0	
1847	ndustrial Product Marketing II		0	
2912	Principles of Accounting II	. 3	2	
2312	Therpies of Accounting II			8
		18	2	
Tenth T	erm social l	Coeln	o Princ	10

A competency-based math test will be administered to all entering Business Technology students. Its purpose is to start students into a math sequence which is more compatible to their level of experience and aptitude.

Office Specialist Technologies (Secretarial)

Three majors are available in the office specialist area: Administrative Support, General Office, and Word Processing. The curricula include not only technical skill development but also courses in business principles and management.

The Administrative Support Specialist (ADSS) curriculum emphasizes the art of oral and written communication in office procedures, shorthand, typing, word processing, and management techniques.

The General Office Specialist (GOS) curriculum emphasizes learning skills in typing, data entry, word processing and management.

The Word Processing Specialist (WP) curriculum prepares an individual to be a word/information processing operator or a word/information processing supervisor. In this program, handson classroom training is provided on personal computers, electronic typewriters, stand-alone display text-editing equipment and shared-logic equipment. Word processing management tech-

niques and procedures are emphasized.

Advanced placement is available only through testing in shorthand and typing.

Administrative Support Specialist Technology Curriculum

		Hours Per	Week	Credi
		Class	Lab	Hour
First 7	Torm and a second	ek anu bi	nom :	COPY
1001	English Composition I	10 3	0	3
1120	Intro to Business Mathematics	. 4	0	4
	Business Principles		0	3
	The state of the s			
3001	Typewriting I	2	3	3
3021	Office Procedures	3	2	3
308x	Shorthand I Elective	2	3	3
		17	8	19
Saco	nd Term	onost o	CHEVY I	TET
	Co-Op Employment Business Tech	4	40	3
Third	Term	t lo solar	arpir S	2005
1009	Term	3	0	3
1121	Business Mathematics	4	0	4
	Computerized Business Applications		3	3
	Shorthand II Elective		3	3
3002	Typewriting II	2	3	3
	Word Processing Office Applications		3	3
3032	Office Proc/Professional Development	2	3	3
		17	15	22
E	nications Elective	ummo.)	13	22
	h Term	s Manage	ising a	181
9202	Co-Op Employment Business Tech	4	40	3
Fifth			Real I	295
1002	English Composition II	3	0	3
	Business Law I		0	3
	Principles of Management		0	3
2002	Typowriting III	3		
3003	Typewriting III	2	3	3
	Machine Transcription		3	3
3086	Shorthand III-Speedwriting/C21/Gregg	2	_3_	3
		15	9	18
Sixth	ts purpose is in man students and apimer ble to their level of experience and apimer	teames!	som a	echine Visich
	Co-Op Employment Business Tech		40	3
Sever	nth Term ISMERICAN TERMS AND THE	EM BI	Keth	TEN
1011	Business Communications	3	0	3
	Human Relations	3	0	3
	Principles of Accounting I	3	2	
3024	Secretarial Procedures	2	3	3
3061	Word/Information Processing I	1 1	4	3
3087	Trans I-Speedwriting/C21/Gregg	otion is	8	5
		14	17	20
old 8	examines consumer behavior, pricin	ASOMOU	10.53	20
Eight	h Term Co-Op Employment Business Tech	bulz, en	10	
3204	CO-OP Employment business lecti	diam lo	40	encife
	Term sales include sales are term	art . He marken	ticing	dver
1020	Effective Speaking	3	0	3
	Micro Economics	3	0	3
1512	Introduction to Sociology	3	0	3
1512 1521		3	2	3
1521	Principles of Accounting II	E KIN YOU		-
1521 2912	Principles of Accounting II	2	8	
1521 2912	Trans II-Speedwriting/C21/Gregg	2	10	17
1521 2912	Trans II-Speedwriting/C21/Gregg	14	-	17
1521 2912 3088	Trans II-Speedwriting/C21/Gregg	14	10	17
1521 2912 3088	Trans II-Speedwriting/C21/Gregg	2	-	17

Shorthand II Elective: 3081, 3083, 3085

103

General Office Specialist Technology Curriculum

English Composition I			Hours Pe Class	r Week Lab	Cre
English Composition I	First T	lorno Fiosani	Class	Lab	HOL
Intro to Business Mathematics			2	0	2
Computerized Business Applications 2 3 3 3 3 3 3 3 3 3				0.20	
Business Principles 3 0 3 3 0 3 3 0 3 3	1950	Computarized Pusiness Applications	4	-	
Typewriting 2 3 3 2 3 3 4 5 6 6 6 1					-
Office Procedures 3 2 3 Ind Term Co-Op Employment Business Tech 4 40 3 Business English 3 0 3 Business Mathematics 4 0 4 2 Typewriting II 2 3 3 2 WP Office Applications 2 3 3 2 Office Proc/Prof Development 2 3 3 2 Word/Information Processing I 1 4 3 4 In Term 2 3 3 3 5 Principles of Management Business Tech 4 40 3 6 Principles of Management 3 0 3 8 Washines Tenscription 2 3 3 8 Co-Op Employment Business Tech 4 40 3 9 Personnel Management 3 0 3 10 Ferm 3 0 3 10 Fersonnel Management 3 0 3 10 Figer 3 2 3 3 <	3001	The state of the s		0.70	_
17 8 18 18 18 18 18 18 1	3021				
Co-Op Employment Business Tech	3021	Office Procedures		NAME OF TAXABLE PARTY.	1
Term Business English 3 0 3 3 3 3 3 3 3 3	ğ	(Kiomerating Systems	17	8	1
Business English 3 0 3 Business Mathematics 4 0 4 Typewriting II 2 3 3 WP Office Applications 2 3 3 Word/Information Processing I 1 4 3 Term 2 Co-Op Employment Business Tech 4 40 3 Term 3 0 3 3 Tipewriting II 3 0 3 Business Law I 3 0 3 Money and Banking 3 0 3 Money and Banking 3 0 3 Money in Business Tech 4 40 3 Typewriting III 2 3 3 Machine Transcription 2 3 3 Tipem 3 Co-Op Employment Business Tech 4 40 3 Term 3 Co-Op Employment Business Tech 4 40 3 Term 3 Co-Op Employment Business Tech 4 40 3 Tipewriting IV 2 3 3 Typewriting IV 3 3 Typewriting IV 3 3 3 Typewriting IV 3 3 Typewriting I			4	40	3
Business English	Third	Term 8 Looks	oreno Dela	Ing.	2001
Business Mathematics		icim		0	12
Typewriting				0	
WP Office Applications			CONTROL OF THE		
Coffice Proc/Prof Development 2 3 3 3 3 4 3 3 4 13 14 13 14 13 15 14 13 15 14 13 15 15 15 15 15 15 15					
th Term Business Communications Co-Op Employment Business Tech Co-Op Employment Business Te					
th Term 2 Co-Op Employment Business Tech					
th Term 2 Co-Op Employment Business Tech	3061	Word/Information Processing I	1_	4	_3
Co-Op Employment Business Tech			14	13	102
Co-Op Employment Business Tech	Fourt	Term	nominal of	DEM.	EVE
2. English Composition II 3 0 3 3. Business Law I 3 0 3 4. Money and Banking 3 0 3 5. Principles of Management 3 0 3 6. Typewriting III 2 3 3 8. Machine Transcription 2 3 3 8. Co-Op Employment Business Tech 4 40 3 9. Personnel Management 3 0 3 9. Personnel Management 3 0 3 9. Personnel Principles of Accounting I 3 2 3 9. Secretarial Procedures 2 3 3 9. Secretarial Procedures 2 3 3 16. 8 16 16. 8 16 16. 8 16 16. 8 16 16. 8 16 16. 8 16 16. 8 16 16. 8 16 16. 8 16 16. 8 16 17. 10 10 10 18. 10 10 </td <td>9202</td> <td>Co-Op Employment Business Tech</td> <td> 4</td> <td>40</td> <td>08 13</td>	9202	Co-Op Employment Business Tech	4	40	08 13
2 English Composition II 3 0 3 Business Law I 3 0 3 Money and Banking 3 0 5 Principles of Management 3 0 6 Typewriting III 2 3 8 Machine Transcription 2 3 8 Co-Op Employment Business Tech 4 40 1 Term 3 0 8 Co-Op Employment Business Tech 4 40 9 Personnel Management 3 0 1 Typewriting IV 2 3 2 Secretarial Procedures 2 3 3 Typewriting IV 2 3 4 Secretarial Procedures 2 3 5 Typewriting IV 2 3 6 Typewriting IV 3 3 7 Typewriting IV 3 3 8 Secretarial Procedures 3 40 9 Micro Economics 3 0	Eifth T	OPPO STORY	nie Manu	riskin :	218
Business Law 3 0 6 Money and Banking 3 0 6 Money and Banking 3 0 6 Principles of Management 3 0 6 Typewriting III 2 3 6 Machine Transcription 2 3 6 6 1 Term			3	0	
Money and Banking 3				36	
Principles of Management 3 0 3 3 3 3 3 3 3 3					
Typewriting III				1111000	
Machine Transcription	2926	Principles of Management	3	0	SXX
Term 3 Co-Op Employment Business Tech 4 40 3	3003	Typewriting III	2	3	1283
Term 3 Co-Op Employment Business Tech 4 40 3	3023	Machine Transcription	2	3	1013
nth Term 3 0 3 Business Communications 3 0 3 2 Human Relations 3 0 3 2 Personnel Management 3 0 3 Principles of Accounting I 3 2 3 4 Specretarial Procedures 2 3 3 4 Secretarial Procedures 2 3 3 4 Co-Op Employment Business Tech 3 40 2 4 Term 2 3 0 3 2 Micro Economics 3 0 3			16	6	1
### Term ### Co-Op Employment Business Tech #### Co-Op Employment Business Tech #### Effective Speaking ###################################	Sixth	Term		Aller A	0.000 (1.000
Business Communications 3 0 3 3 0 3 3 0 3 3	9203	Co-Op Employment Business Tech	4	40	3
Personnel Management 3 0 2 3 3 4 5 5 5 5 5 6 5 6 5 6 5 6 6 5 6 6 6 6 6	Seven	th Term	olami of	J-03 I	-04B
Human Relations	1011	Business Communications	3	0	3
Personnel Management				0	
Principles of Accounting I					
Typewriting IV	2911				
Secretarial Procedures					
th Term Co-Op Employment Business Tech					
th Term Co-Op Employment Business Tech 3 40 2 h Term Effective Speaking 3 0 3 Micro Economics 3 0 3	3024	secretariai Procedures		-	-
h Term D Effective Speaking	818	£1 B1	16	8	1
h Term D Effective Speaking	Eighth	Term			
D Effective Speaking	9204	Co-Op Employment Business Tech	3	40	1102
2 Micro Economics					
2 Micro Economics	1020	Effective Speaking	3	0	813
Introduction to Sociology 2 0				0	3
introduction to sociology	1521	Introduction to Sociology	3	0	3
2 Data Entry Systems				3	
Survey of Marketing	2903	Survey of Marketing			
Office Management	2904	Office Management		7-18-73	
17 3 1	2504	Office Management			-
	Tarit	T			
h Term 5 Co-Op Employment Business Tech			12 2 8	40	is in
Co-Op Employment Business tech	3205	Co-op Employment business tech	3	40	

A competency-based math test will be administered to all entering Business Technology students. Its purpose is to start students into a math sequence which is more compatible to their level of experience and aptitude.

Word Processing Specialist Technology Curriculum

	and a second of the	100000000000000000000000000000000000000	Hours Per Week		
		Class	Lab	Hour	
First T	erm				
1001	English Composition I	3	0	3	
	Intro to Business Mathematics	4	0	4	
	Computerized Business Applications	191012	3	3	
	Typewriting I	3 TO 22 16	3	3	
	Office Procedures		-	3	
	Intro to Word/Information Processing			2	
	Word/Information Processing I		4	3	
3001	thou the student takes a variety of con		12	21	
The	the himanities and social sciences	ion skills	160Inu	71	
	udent to express ideas in speet mraf b				
9201	Co-Op Employment Business Tech	419	40	3	
Third	d co-op work experience plays (mraT				
1009	Business English	3	0	3	
1121	Business Mathematics	4	0	4	
	Business Principles		0	3	
3002	Typewriting II		3	3	
3032	Office Proc/Prof Development	2	3	3	
	Information Records Processing	01 19110	4	3	
3002	garag sharing sprayage a of the	1 receive	63 Th	to THE	
	work experience who wish to ap	15	10	19	
	h Term	OD BRIDE	(2) (1)	HIGH Ade i	
9202	Co-Op Employment Business Tech	4	40	3	
Fifth 1	security and applied science	sed an as	TISW5	ST 10	
1002	English Composition II	3	0	3	
1512	Micro Economics	303	0	3	
2926	Principles of Management	15/11/31	0	3	
	Typewriting III		3	3	
	Machine Transcription				
				2	
3063	Word/Information Processing II	14		18	
05. ni	e that a student does not meet certa	tanibni a	1291 9	di il	
	Term Co-Op Employment Business Tech				
9203	20-09 Employment business tech	ic tred of	40	цари	
-	aratory courses are needed, a mreT dt	iny prep	le, if a	diesi	
	Business Communications		0	-	
1502	Human Relations	seria 3 _{em}	0	3	
	Survey of Marketing		0	3	
	Principles of Accounting I		2	3	
	Word/Information Process Simulation		4	3	
3065	Advanced Word/Information Processing .	1	4	3	
	127 1000	14	10	18	
Fight	gy is geared towards persons interest. The program prepares studer mraft r	olondos	non	Diva	
9204	Co-Op Employment Business Tech	3	40	2	
Ninth	Term all projective of the least specific	t noga ai	ond o	Boll	
	Effective Speaking	3	0	3	
1521	Introduction to Sociology	3	0	2	
	Business Law I	3	0	3	
		3	0	3	
	Office Management		2		
	Principles of Accounting II			3	
	Text Processing		4	3	
3067	Word/Information Processing Admin		3	3	
	rriculum	18	9	21	
Tenth					
DOOF	Co-Op Employment Business Tech	3	40	2	
9205	Co op ampro/memorations recit 11111			-	

A competency-based math test will be administered to all entering Business Technology students. Its purpose is to start students into a math sequence which is more compatible to their level of experience and aptitude.

Engineering Multiplication Vision of the Company of **Technologies Division**

The Engineering Technologies Division offers programs in many engineering technology disciplines to help meet the need for competent technicians which is required by today's highly technological society. All programs are either two-year associate

degree programs or one-year certificate programs.

The curriculum followed in each program provides the specialized technical instruction in the student's major area of concentration and the basic theory and skills in physics and mathematics. In addition, the student takes a variety of courses in communication skills, the humanities and social sciences. These courses enable the student to express ideas in speech and writing, and to better understand himself or herself and others and

As available, related co-op work experience plays an important part in the student's technical education. The co-op credit hours identified in each curriculum are required for the associate degree. Students wishing not to co-op must make up the co-op credits with approved academic credits. Students with valid work experience prior to acceptance into an engineering technology program can receive up to 13 advance standing co-op credits. Students with prior work experience who wish to apply for advance standing co-op credits should contact their advisor during their first term at the College.

Upon successful completion of the two-year program the stu-

dent is awarded an associate degree in applied science.

In order to insure a high degree of success in the technology selected, the student must be able to perform at established academic levels in mathematics, communication skills and reading comprehension. To aid in determining these levels it is required that all students planning to enter an engineering technology program, except those with appropriate transfer credits, take the college placement tests.

If the tests indicate that a student does not meet certain academic levels, the student may be advised to take appropriate preparatory courses before acceptance is granted. Students are encouraged to test and finalize the admissions process as soon as possible. If any preparatory courses are needed, students may be able to enroll in them in the summer term, thereby bettering their chance to enter the technology in the September and/or November terms when most of the technologies' course work begins.

Aviation Technology (AV)

Aviation Technology is geared towards persons interested in aviation maintenance. The program prepares students to take the tests necessary to receive the aircraft mechanic's license. Half the college time is spent in classes learning how electrical, mechanical, and physical concepts relate to aviation. The other half is spent with hands-on experience working on the six aircraft owned by CTC. A degree in Aviation Technology prepares a student to work in aircraft manufacturing, maintenance, or management.

Aviation **Technology Curriculum**

Hoyment Business Tech	ours Pe	Week	Credit
CIL	Class	Lab	Hours
■ First Term			
1191 Algebra & Trigonometry I	4	0	104
2221 Technical Physics I	2	3	3
8100 Aircraft Orientation	4	4	5
8101 Machine & Hand Tools	1	4	3
8102 Basic Aerodynamics & FAA Regulations	3	2	3
	14	13	18

	tallel med an	1225	100	9753
	nd Term	The same		
	Algebra & Trigonometry II		0	
2222	Technical Physics II	2	3	3
8106	Engineering Graphics (AV)	2	2	2
8107	Materials & Processes	5	5	5
8108	Aircraft Electricity	3	2	3
8109	Cleaning & Corrosion Control	2	3	3
	D E Inprispos	18	15	20
	presentation at the contraction of the contraction	208 m	Louis	ner
Third	The second secon			
1001	English Composition I	3	0	3
2223	Technical Physics III	2	3	1113
	Airframe Structures I			5
8131	Welding Processes	1	4	2
8132	Aircraft Electric/Generating Systems	5	5	5
0132	American Electric deficituting by sterns		19	-
3	Ot A dool seement 9 to any of	n Enve		1005
Fourt	h Term			
1002	English Composition II	3	0	3
	Airframe Structures			9005
	Airframe Fuel Systems			2
	Assembly & Rigging			5
8143	Airframe Hydrolics & Pneumatic System	1	1	2
0173	Arral Development	DATE N	1000	_
				1909
Fifth 1		- Control of the		
	Human Relations	3	0	3
	Macro Economics		0	
0150	Macro Economics	5		
	Instr, Comm, Nav, Util Systems			2005
8151	Airframe Sy, Hyd & Pneu Landing Gear	3	7	5
8152	Flightline Maintenance		4	2
		15	16	20018
Sixth	Term E goldons	bns vs	Mone	2085
	Social Science Elective	3	0	0203
	Computerized Business Applications		3	£003
8160	Powerplant Theory and Maintenance I			E 505
0161	Powerplant Lubrication		3	4
8162	Propellers		4	4
		18	15	1
Seven	th Term			
	Co-Op Employment Engineering Tech		40	eve2
Fight	h Term E		meuti Hum	COST
102	Oral Communcation Election			2183
	Powerplant Theory and Maintenance II		5	1005
	Powerplant Fuel Metering System	4	5	
8172	Ignition Systems	5	5	1205
		18	15	18
	The state of the s		and the	h.d. I
Ninth			0-0	100 a
	Technical Writing I		20000	100
	Engine Systems	5	5	5
	Engine Instruments/Fire Protection			11013
8183	Powerplant Theory & Maintenance III	25	5	0005
		14	14	10
-	\$ 1 Services and	EURA	SIEU	7171
Tenth 9405		A by ye	40	EOPS
9403	Co-Op Employment Engineering Tech	e Mar	40	2
				14

Aviation Maintenance Certificate Programs

Included in the Aviation Maintenance degree program are two certificate programs (Air Agency certificate No. 105-5). At the successful completion of either or both of the airframe and/or powerplant requirements, Cincinnati Technical College issues a certificate which, upon presentation to a FAA designated examiner, allows students to take the FAA written test leading to licensing.

Airframe Certificate Curriculum

	Hours Pe Class	r Week Lab	Credit Hours
■ First Term	Common	mO x	101
1001 English Composition I	3	0	3
1010 Technical Writing I	3	0	3
1191 Algegra & Trigonometry I	4	0	4
2221 Technical Physics I	2	3	3
2222 Technical Physics II	3	2	3
2223 Technical Physics III	2	3	3
8100 Aircraft Orientation	4	4	5
8101 Machine & Hand Tools	1	4	3
8102 Basic Aerodynamics & FAA Regulation		2	3
8106 Engineering Graphics (AV)	2	2	2
8107 Materials & Processes	5	5	5
8108 Aircraft Electricity	3	2	3
8109 Cleaning & Corrosion Control	2	3	3
8130 Airframe Structures I	3	7	125
8131 Welding Processes	1	4	2
8132 Aircraft Electrical/Generating System	5	5	5
8140 Airframe Structures	3	7	5
8141 Airframe Fuel Systems	1	4	202
8142 Assembly & Rigging	3	7	5
8143 Airframe Hydraulic & Pneumatic System	1	4	2
8150 Instr, Comm, Nav, Utilities Systems	5	5	5
8151 Airframe Systems, Hyd & Pneu Land Gr		7	5
8152 Flightline Maintenance		4	2
8155 Airframe Comprehensive	2_	_1_	2
	65	85	83
		-	83

Powerplant Certification Curriculum

		Hours Pe	Hours Per Week	
Minn 3	Nour Por We	Class	Lab	Hours
First T	erm			
1001	English Composition I	3	0	3
1010	Technical Writing I	3	0	3
1191	Algegra & Trigonometry I	4	0	4
2221	Technical Physics I	2	3	3
2222	Technical Physics II	3	2	3
2223	Technical Physics III	2	3	3
	Aircraft Orientation	4	4	5
8101	Machine & Hand Tools	1	4	3
8102	Basic Aerodynamics & FAA Regulation	3	2	3
	Engineering Graphics (AV)		2	2
	Materials & Processes		-0.5	01-05
8108	Aircraft Electricity	3	2	3
8109	Cleaning & Corrosion Control	2	3	3
8160	Powerplant Theory and Maintenance I	5	5	5
8161	Powerplant Lubrication	4	3	4
8162	Propellers		4	4
8170	Powerplant Theory and Maintenance II	5	5	5
8171	Powerplant Fuel Metering System	5	5	5
8172	Ignition Systems	5	5 0	5
8180	Engine Systems	5	5	5
8182	Engine Instruments & Fire Protection		4	3
8183	Powerplant Theory & Maintenance III	3	2	3
	Powerplant Comprehensive		1	2
		76	69	84
				84

Biomedical Electronics Technology (BMET)

The Biomedical Electronics Technology Program was created because of a need for a technician to repair, maintain, modify and design complex medical instrumentation.

This person is employed by hospitals as well as equipment manufacturers. The BMET graduate will have advanced electronic skills as well as education in the following areas:

- Installation and calibration of Biomedical Equipment.
- Preventative maintenance, repair, and inspection of equipment.
- Operation of safety and maintenance programs.

The Biomedical Electronics Technician is a professional with a broad background in electronics and instrumentation that will make the graduate an asset to any organization.

Biomedical Electronics Technology Curriculum

	income laukivihai kutaalat itiirra a aa	Hours Per Class	Week Lab	Cre
First 1				
1001	English Composition I	. 3	0	3
1191	Algebra & Trigonometry I		0	4
2231	Fundamentals of Inorganic Chemistry	. 4	2	4
	Computer Programming - Basic	. 2	2	110
	DC Circuit Analysis	6	0	gnire
//10		Condition our	0	-
7711	DC Circuits Lab	. 0	3	ETC 1
		18	7	2
fesn.	. Topics covered include: instrument	merne	upis !	BURL
Secor	documented research and remark br			
9401	Co-Op Employment Engineering Tech	usuko	40	D V
Third	Management Major meT	malta	25772	mo
	English Composition II	. 3	0	
			(()	day (3
	Algebra and Trigonometry II			
	Anatomy and Physiology I			4
7720	AC Circuit Analysis	. 6	0	205
7721	AC Curcuits Lab	. 0	3	etro. I
7728	Introduction to Digital Concepts	. 3	2	THE REAL PROPERTY.
			-	-
Assis	ude scheduling, contracting, and est	19	HC(Z)	2
Fourt	als, Structural Design Land and mraft h	Materio	to di	eng
9402	Co-Op Employment Engineering Tech	· yago	40	Je
Fifth '	Term			
1193	Analytic Geometry and Calculus I	. 4	0	4
	Physics III	. 3	2	
	Anatomy and Physiology II	. 3	2	1
	Electronics I	. 6	3	9 315
7738	Digital Systems I	3_	3	
		19	10	2
Chal	161 28612		1	-
Sixth 9403	Co-Op Employment Engineering Tech	go Irlai	40	001
Carra	nth Term	d of plant	100	per
		3	0	505
of the second second	Old Collinaries College Colleg		0	
15xx	Social Science Elective	1.23	0	117
	Human Relations	. 3	0	167
1502	Electronics II	. 4	2	2
2777				
7740		. 3	3	4
7740 7748	Digital Systems II	. 3		
7740 7748	Digital Systems II	. 3	2	on!
7740 7748	Digital Systems II	. 3	7	2
7740 7748 7749	Digital Systems II	. 3	7 7	2
7740 7748 7749	Digital Systems II	. 3	7 7	2
7740 7748 7749	Digital Systems II	. 3	7 7	2
7740 7748 7749 Eight 9404 Ninth	Digital Systems II	. 3 . 3 . 19	7 7	2
7740 7748 7749 Eight 9404 Ninth	Digital Systems II	. 3 . 3 . 19	7 7	0 2 0 2 0 0 7 0 0 7
7740 7748 7749 Eight 9404 Ninth	Digital Systems II	3 3 19	2 7 40	0 2 0 1 0 1 0 1 0 1 0 5
7740 7748 7749 Eight 9404 Ninth 1010 1513	Digital Systems II	. 3 . 19	2 7 40 0 0	00 2 00 2 00 0 21 1 00 5 00 5 00 5 00 5
7740 7748 7749 Eight 9404 Ninth 1010 1513 7750	Digital Systems II	. 3 . 3 . 3 . 4	2 7 40 0 0 2	00 2 00 2 00 7 00 7 00 7 00 7 00 7 00 7
7740 7748 7749 Eight 9404 Ninth 1010 1513 7750 7759	Digital Systems II	. 1	2 7 40 0 0	00 2 00 2 00 0 21 1 00 5 00 5 00 5 00 5
7740 7748 7749 Eight 9404 Ninth 1010 1513 7750 7759	Digital Systems II	. 3 . 3 . 3 . 4 . 3 . 3 . 3	2 7 40 0 0 2 2 2 3	04 2 04 2 06 0 00 0 20 1 20 5 20 5 20 5 20 5 20 5 20 5 20 5 20 5
7740 7748 7749 Eight 9404 Ninth 1010 1513 7750 7759	Digital Systems II	. 3 . 3 . 19 . 1 . 3 . 3 . 4 . 3 . 3	2 7 40 0 0 2 2	04 2 04 2 06 0 00 0 20 1 20 5 20 5 20 5 20 5 20 5 20 5 20 5 20 5
7740 7748 7749 Eight 9404 Ninth 1010 1513 7750 7759 7768	Digital Systems II	. 3 . 3 . 19 . 1 . 3 . 3 . 4 . 3 . 3	2 7 40 0 0 2 2 2 3	04 2 04 2 06 0 00 0 20 1 20 5 20 5 20 5 20 5 20 5 20 5 20 5 20 5
7740 7748 7749 Eight 9404 Ninth 1010 1513 7750 7759 7768	Digital Systems II	. 3 . 3 . 19 . 1 . 3 . 3 . 4 . 3 . 3 . 3	2 7 40 0 0 2 2 2 3	04 2 04 2 06 0 00 0 20 1 20 5 20 5 20 5 20 5 20 5 20 5 20 5 20 5

Courses 7749 and 7759 are normally offered only one term per year in late afternoon or evening.

Civil Engineering Technology (CET) (A TAC/ABET accredited program)

Recipient of a 1984 Ohio Board of Regents Program Excellence award.

Civil Engineering Technology is a single program from which a student may select one of two majors.

Surveying Major

Surveying requires a multi-talented individual possessing skills in mathematics, graphics, law, history, astronomy, computer science and urban planning. Professional surveyors are called upon to perform such diverse tasks as: designing subdivisions, retracing original boundary lines, controlling construction projects, preparing legal descriptions and orienting communications systems by star observations.

Students train on state-of-the-art electronic surveying and computing equipment. Topics covered include: instrument usage, computer graphics, documented research and resolution, highway design, control surveying and site planning.

Construction Management Major

Early in the curriculum, students are exposed to materials and methods of construction, architectural drafting, elements of structures, statistics, and light construction principles.

Later in the curriculum principles such as heavy construction, project controls and construction management are investigated. Other topics include scheduling, contracting, and estimating. Civil Engineering Technology fundamentals are carried in Strength of Materials, Structural Design I and II and Soil Engineering Technology.

Many of the courses are supplemented by the use of computers with an emphasis on Computer Aided Design.

Civil Engineering Technology Curriculum Surveying Major

		Hours Per Week		Credit
	F	Class	Lab	Hours
First 7	Term .			
1001	English Composition I	. 3	0	01-13
1191	Algebra & Trigonometry I	. 4	0	4
2291	Physics I		2	3
7024	Architectural Drafting	. 2	4	013
7910	Surveying Measurements	3	3	3
7911	Introduction to Construction	. 3	m1 5	02 3
		18	10	19
Secor	nd Term	la pilborn	oi8 e	774
9401	Co-Op Employment Engineering Tech	1	40	3
Third	Term	Try)	not vite	Name of
	English Composition II		0	3
1192	Algebra and Trigonometry II		0	4
2292			2	3
	Surveying Drafting			3
	Introduction to Computer Program -CET		2	3
7920	Surveying Calculations	4_	_ 2	3
		18	10	19
Fourt	h Term	DETE INT		
9402	Co-Op Employment Engineering Tech	. 1	40	3
Fifth '		Op Emp	-e3 -2	340
	Applied Statistics		0	4
1502	Human Relations	3	0	3
7930	Route Surveying		3	3
7931	Light Construction	3	3 2	3
7934		3		3
7935	Computer Applications (Civil)	2_	_2_	3
		18	10	19

ale de la constitución de la con		-		_
	nth Term			
	Oral Communication Elective	3	0	
15xx	Social Science Elective			
2293	Physics III	3	2 0	
7940	Elements of Land Surveying	3	2	
7943	Estimation & Inspection	3	2	
7947	Drainage Control Systems	3	2	
7948	Subdivision Design	3	_ 2	CL
		21	10	013
	h Term Co-Op Employment Engineering Tech	oneA :	40	010
Ninth	Term	of the	S Aircr	013
1010	Technical Writing I	3	0	
	Macro Economics	3	0	
7950	Surveying Field Project	1	6	
7955	Soils Engineering Technology	2	3	
7957		3	min 0	
7958	Control Surveying	3	3	
		15	13	e T
-	Term	moD	Ment O	en

Civil Engineering Technology Curriculum Construction Management Major

	Hours Par West	Hours Pe	r Week	Credi	
1	39.2	Class	Lab	Hour	
First 7	Term .				
1001	English Composition I	. 3	0	3	
	Algebra & Trigonometry I		0	4	
2291	Physics I	. 3	2	3	
7024	Architectural Drafting	. 2	4	3	
7910	Surveying Measurements	. 3	3	3	
	Introduction to Construction	. 3	1	3	
		18	10	19	
	nd Term (VA)	r Aeroc necring	igni) d	018	
9401	Co-Op Employment Engineering Tech	9 1 10	40	3	
Third		& snim	9 Cles	018	
	English Composition II	. 3	0	3	
	Algebra and Trigonometry II	. 4	0	4	
	Physics II		2	3	
	Surveying Drafting		4	3	
	Introduction to Computer Program -CET		2	3	
7920	Surveying Calculations	4_	2	3	
		18	10	19	
	h Term	er plant erolant	5 Pow	818	
9402	Co-Op Employment Engineering Tech	. 1	40	3	
Fifth					
	Analytic Geometry and Calculus I		0	4	
1502	Human Relations	. 3	0	3	
	Route Surveying		3	3	
	Light Construction		3	3	
	Statics		2	3	
7935	Computer Applications (Civil)		2	3	
		18	10	19	
Sixth		ers. Th	factur	unso	
9403	Co-Op Employment Engineering Tech	09 16	40	3	
	alntenance, repair, and imperment the		sinov		
	Oral Communication Elective	. 3	0		
Laxx	Social Science Elective	. 3	0	3	

	Physics III	3	2	3
	CAD Architectural	2	3	3
	Estimation & Inspection	3	2	3
	Strength of Materials (Civil)	3	2	3
7945	Structural Design I	3	2	3
		20	11	2
Eightl	1 Term		prie?	Ami
9404	Co-Op Employment Engineering Tech	1	40	2
Ninth	Term	1112	Property	293
1010	Technical Writing I	3	0	3
1513	Macro Economics	3	0	3
7941	Heavy Construction	3	2	3
7953	Construction Management & Operations	3	2	3
7954	Structural Design II	2	4	3
7955	Soils Engineering Technology	2	3	3
		16	11	18
Tenth	Term Switze	B loop	mbei	XXX
9405	Co-Op Employment Engineering Tech	10	40	2
	A Company of the Comp			10

Computer Engineering Technology (CPET)

The purpose of the Computer Engineering Technology program is to educate students in the areas of computer hardware-software design and testing. Course work includes: single board and multicard microcomputers, operating systems, high level languages, and control applications.

A graduate of the program will be capable of working with computer hardware and software engineers. Also, the knowledge and use of test equipment make the graduate an excellent candidate for field service work as well. The introduction to computer communications systems will enable the graduate to install, test, and troubleshoot digital communications equipment. The Computer Engineering Technology graduate should fit very well into any organization that uses computer systems to solve engineering problems.

Computer Engineering Technology Curruculum

		Hours Per	irs Per Week		rs Per Week		Per Week C	Credi
		Class	Lab	Hour				
First T	86 Ohio Board of Regents Program mrs							
1001	English Composition I	. 3	0	3				
1191	Algebra & Trigonometry I		0	4				
6106	Modular programming	. 2	2	3				
7710	DC Circuit Analysis	. 6	0	5				
7711	DC Circuit Lab	. 0	3	1				
7728	Introduction to Digital Concepts	. 3	2	3				
		18	7	19				
	nd Term	menta:	MITS ST	od ,e.				
9401	Co-Op Employment Engineering Tech	inaliza	40	3				
Third		sq91	0011	Here's				
1192	Algebra and Trigonometry II	. 4	0	4				
2291	Physics I		2	3				
	AC Circuit Analysis		0	5				
7721	AC Circuits Lab	. 0	3	19				
7727	Programming in "C"	. 3	3	4				
7738	Digital Systems I	. 3	3	_4				
		19	11	21				
Fourt	h Term	RY C	olon	desin				
9402	Co-Op Employment Engineering Tech	. 1	40	3				
Fifth 1	Term							
	Analytic Geometry & Calculus I	. 4	0	4				
	Human Relations	. 3	0	3				
2292	Physics II	. 3	2	3				
7730	Electronics I	. 6	3	5				

7748	Digital Systems II	3	_3_	-
		19	8	
Sixth			rereaT	di
9403	Co-Op Employment Engineering Tech	W1	40	
Sever	nth Term	nivo 13	- Micro	12
1010	Technical Writing I	3	0	
	Oral Communication Elective		0	
2293	Physics III	3	2	
7742	Computer Aided Drafting (Electrical)	2	3	
7747	Computer Instrumentation	2	2	
7768	Digital Systems III	3	3	L
		16	10	
Eightl	n Term	800	ed & Tan	OEU.
	Co-Op Employment Engineering Tech	da o	40	
Ninth	Term sensition of Materials	110 Sur	Station	28
7xxx	Technical Elective	0	0	
1015	Technical Writing II	3	0	
15xx	Social Science Elective	3	0	
1513	Macro Economics	3	0	
7767	Computer Communications	3	2	
7769	Real Time Applications	3	3	
		15	5	
Touth	Term		aris7 o	in .
ientn				

Technical Electives: 1194, 1195, 6710, 7144, 7146, 7157, 7743, 7753, 7758, 7740

Computer-Integrated Manufacturing (CIM) Engineering Technology

Computer-Integrated Manufacturing Engineering Technology prepares students for the influx of computers in today's manufacturing industry. Classes emphasize the computer's role in both planning and processing, covering subjects such as Numerical Control and manufacturing processes. Students are able to work on the Computer-Integrated Manufacturing equipment owned by the college. Graduates are prepared to enter positions in areas such as Numerical Control and Computer Numerical Control Programming, Statistical Process Control, Processing, Methods, Standards and Cost Estimating.

Computer-Integrated Manufacturing Engineering Technology Curriculum

		Hours Pe	Per Week Cre	Credit
		Class	Lab	Hours
First T	erm			
1001	English Composition I	. 3	0	3
1191	Algebra & Trigonometry I		0	4
2291	Physics I		2	3
7010	Engineering Drawing I		4	3
7412	Introduction to Data Analysis		2	3
	Manufacturing Processes & Material I		2	3
	ogramming - Basic 2 2 nulvais 6 0	18	10	19
■ Secor	nd Term) SUIDON	230	2132
9401	Co-Op Employment Engineering Tech	. 1	40	3
■ Third	Term		nol len	epaz I
1002	English Composition II	. 3	0	3
1192	Algebra & Trigonometry II	. 4	0	4
	Physics II		2	3
7030	Computer Programming - Basic	. 2	2	3
7160	Computer Aided Drafting I	. 2	3	3
	Manufacturing Processes & Material II		2	3
	nalysis 6 . 0	17	9	19

9402	Co-Op Employment Engineering Tech	1	40	
Fifth 1	Term		ALTEON'S	ÌĮ.
1010	Technical Writing I	3	0	
1179	Introduction to Applied Statistics	4	0	
1512	Micro Economics	3	0	
7144	NC/CNC Programming I	2	3	
7438	Industrial Engineering Concepts	2	2	
7449	Computer Aided Manufacturing I	3	2	
	ided Drafting Electrical) 2 3 Strangentarios 1 2 2	17	7	47
Sixth	Term	naye ti	AUGCT 1	du
9403	Co-Op Employment Engineering Tech	1	40	
Sever	nth Term		mal di	v (8
1535	Intro to Labor Management Relations	3	0	
2293	Physics III	3	2	
7145	Statics & Strength of Materials	3	2	
	NC/CNC Programming II	2	3	
	Quality Assurance/Static Process Ctrl	3	2	
7444	Manufacturing Process Planning	2	2	XXI
	iomica de la composición del composición de la composición de la composición del composición de la com	16	11	
Eight	h Term	A DINI	I BEDI	0
9404	Co-Op Employment Engineering Tech	1	40	
Ninth	Term	- 1	onesi r	10m
	Technical Elective	0	0	
	Oral Communications Elective	3	0	
	Social Science Elective	3	0	
	Production Cost and Control	3	0	
	CAD/CAM Project	3	2	
7708	Electrical Fundamentals & Control	3	_3_	_
	tegrated Manufacturing (CIM	15	5 g	n
Tenth		gn	neen	
9405	Co-Op Employment Engineering Tech	1	40	_
				TIC

Electronics Engineering Technology (EET)

Electronics Engineering Technology details both analog and digital electronics.

College work consists of classes covering the theory and application of electronic systems, including time spent in labs fully equipped for electronic design. Graduates assume positions such as Applications Technician, Software Specialist or Service Technician.

Electronics Engineering Technology Curriculum

		Hours Pe	Hours Per Week		Week Cred	
	2 Individual and a second	Class	Lab	Hours		
First Ter	m (
1001 Er	nglish Composition I	. 3	0	0/03		
1191 Al	lgebra & Trigonometry I	. 4	0	4		
2291 Pł	nysics I	3	2	3		
7030 Cd	omputer Programming - Basic	. 2	2	3		
7710 D	C Circuit Analysis	. 6	0	5		
	C Circuits Lab		3	1		
		18	7	19		
Second	Term		and a	CALLET B		
9401 Co	o-Op Employment Engineering Tech	to 1 de	40	3		
Third Te	erm (l a				
1002 Er	nglish Composition II		0	0803		
1192 Al	lgebra & Trigonometry II	. 4	0	4		
	nysics II			8426		
	CCircuit Analysis		0	5		

Fourth Term 9402 Co-Op Employment Engineering Tech	. 1 . 4 . 3 . 3 . 6 . 3	Streng	3 19 3 4 3 3 5
9402 Co-Op Employment Engineering Tech Fifth Term 1193 Analytic Geometry & Calculus I	. 1 . 4 . 3 . 3 . 6 . 3	40	4 3
9402 Co-Op Employment Engineering Tech Fifth Term 1193 Analytic Geometry & Calculus I	. 1 . 4 . 3 . 3 . 6 . 3	40	4 3
1193 Analytic Geometry & Calculus I	. 3 . 3 . 6 . 3	0	3
1193 Analytic Geometry & Calculus I	. 3 . 3 . 6 . 3	0	3
2293 Physics III	. 3 . 6 . 3	-	
2293 Physics III	. 3 . 6 . 3	3 3	3 5
7730 Electronics I	. 3	3	5
7738 Digital Systems I	. 3	3	
	19		4
		8	19
Sixth Term	e Clark	Dung.	1954
9403 Co-Op Employment Engineering Tech	1 971	40	23
Seventh Term		-	
7xxx Technical Elective	. 0	0	3
102x Oral Communications Elective	. 3	0	3
7740 Electronics II	4	2	4
7742 Computer Aided Drafting (Electrical)	. 2	3	3
7748 Digital Systems II	. 2	3	4
dineering Technology (CPET)		8	-
Eighth Term 9404 Co-Op Employment Engineering Tech	e of th stulden	40	2
Ninth Term	Britz	at bris	ngie
7xxx Technical Elective	0	0	3
1010 Technical Writing I	3	0	3
1010 Technical Writing I	3	et one	3
1513 Macro Economics		0	
7750 Electronics III	4	291	
7768 Digital Systems III	0.43	3	194
is will enable the graduate to install, test, and	16	5	_
communications equipment. The Computer	sigib	ishoot	aldur
Tenth Term v very till bloods etsablette ysok			
9405 Co-Op Employment Engineering Tech	J. 315 1.1	40	107

Technical Electives: 1194, 1195, 6710, 6741, 7031, 7033, 7146, 7157, 7160, 7165, 7743, 7753, 7758

Electro-Mechanical Engineering Technology (EMET)

Recipient of a 1986 Ohio Board of Regents Program Excellence award.

The Electro-Mechanical Engineering Technology program is a unique program that combines the study of mechanical systems used in industry and the electronic systems used to control them. There is a high demand for graduates in this field.

The curriculum includes theory and applications of analog and digital (computer) electronics, industrial hydraulics and pneumatics, servomechanisms, electric motors and controls, analysis of mechanisms, and microprocessor-based computer control.

Electro-Mechanical Systems Technicians test, install, maintain, troubleshoot, repair, modify, and operate automated systems such as industrial robots, computer-controlled machine tools, and other machine and process systems used in industry. Graduates are equipped to enter such careers as Robotics Technician, Field Service Technician, Electro-Mechanical Technician, and similar fields.

Electro-Mechanical Engineering Technology Curriculum

	Hours Per	urs Per Week	
	Class	Lab	Hours
■ First Term			
1024 Group Dynamics and Problem Solving	. 3	0	3
1191 Algebra & Trigonometry I	. 4	0	4

Para Maria de la completa della comp		out i	
2291 Physics I	3	2 4	3
7008 Basic Engineering Drawing	6	0	5
7713 Electrical Circuits I Lab		3	30.1
	18	9	19
■ Second Term		mest d	inel' i
9401 Co-Op Employment Engineering Tech	anti d	40	3
■ Third Term	well for	decigons	mayel
10xx Communications Elective	3	0	3
1192 Algebra & Trigonometry II	4	0	4
7030 Computer Programming - Basic	2	2	3
7722 Electrical Circuits II	6	0 3 11	5
	3	2	3
7728 Introduction to Digital Concepts		7	19
gramming - Fortran	3110 (3)	uqma)	13
■ Fourth Term 9402 Co-Op Employment Engineering Tech	noil	40	3
9402 Co-op Employment Engineering Tech 1.1.1.1	HOSTE	40	GAN
Fifth Term		0	
1193 Analytic Geometry & Calculus I	4	0	4
2292 Physics II		2	5
7738 Digital Systems I	3	3	4
7758 Motors and Controls	3	3	3
maining anitron	19	11	19
Sixth Term	-	E	2 9
7104 Introduction to Machine Tool Process	3	2	3
9403 Co-Op Employment Engineering Tech			
			Laivil
Seventh Term 1010 Technical Writing I			3
1502 Human Relations	3	0	3
2293 Physics III	3	2	3
7135 Fluid Power Systems	4	2	4
7142 Mechanisms Analysis and Design	3	3	
7146 Electro-Mechanical Controls I		3	1000
siopment or laserelectro-optic systems.	19	10	20
note that course recommendations in physical	of ins	hoğmi var ən	EL II
Eighth Term9404 Co-Op Employment Engineering Tech	prate	40	2
are testing and an interview. Faculty are crossen	DANN	rocess	q noi
Ninth Term 1019 1015 Technical Writing II		note 199	3
1513 Macro Economics			
1527 Technical and Ethical Decisions			
7156 Electro-Mechanical Design		4	4
7157 EM Controls 2/Robotic Systems		3	4
TOTAL ENCONTROL OF THE PROPERTY OF THE PROPERT			
HISHIGARI I DIE CENHIDAN	14		1/
■ Tenth Term	4	40	0
9405 Co-Op Employment Engineering Tech			
			110
• Recommended Technical Electives: 7133, 7144, 71	67, 77	40, 774	8 (see
program chairman for other electives).			
 Courses 7008, 7030, 1502 and 1527 may be taken d 	uring t	he prev	ious o
following co-op term.	DE SI		NITE OF
Courses 7146 and 7157 are available to students in a consequence of the laborate students.			
on a space-available basis.			
Heating Ventilating and Air Condi	4:	ina	

Heating, Ventilating and Air Conditioning Design Engineering Technology (HVAC)

Preparing students for the design and management of commercial and industrial Heating, Ventilating and Air Conditioning systems is the major objective of the HVAC Design program.

An HVAC designer must be familiar with all types of building materials and structures and the various mechanical systems to heat, ventilate and air condition. In addition, he or she must understand the types of controls employed to operate these systems (electrical, hydraulic, pneumatic and electronic) in order to design the noise-free, energy-efficient, comfortable and safe

environment which modern buildings demand.

An HVAC manager must be capable of assisting plant engineers who oversee the operation of these high-tech systems after they have been installed. This requires a working knowledge of not only HVAC systems but also power distribution, plumbing, process piping and emergency backup systems. HVAC managers have the responsibility of planning and implementing the programs to properly operate and maintain large modern buildings for reliability and efficiency.

Heating Ventilation and Air Conditioning Design Engineering Technology Curriculum

	ator, machine and product design tech tems design technician.	lours Pe	r Week	Credi
when	vished evening school program exists			
First T				
1001	English Composition I	. 3	0	3
1191	Algebra & Trigonometry I	. 4	0	4
2291	Physics I	. 3	2	3
7024	Architectural Drafting	. 2	4	3
7525	Introduction to HVAC Principles	. 3	2	3
7911	Introduction to Construction	. 3	7	3
		18	9.	19
hwi	Hours Per West		-	
	nd Term			
9401	Co-Op Employment Engineering Tech	. 1	40	3
Third	Term	T & 50	Algel	terr
	English Composition II			1053
1192	Algebra & Trigonometry II	4	0	4
2202	Physics II	. 7	2	1013
7016	Construction Drawing		1	
7016	Construction Drawing	. 2		
7030	Computer Programming - Basic	. 2	2	3
7708	Electrical Fundamentals and Control	3_	_ 3	4
		17	110	20
F	Ok / daeL primerina Linearina	qm3q	0.00	IDEP
	h Term Co-Op Employment Engineering Tech	. 1	40	3
102	0 k ll vyjamonogi	E 3.67	iggs//	COLL
Fifth 7				
1193	Analytic Geometry & Calculus I	. 4	0	0504
1502	Human Relations	. 3	0	3
7138	Fluid Mechanics	. 3	2	0813
7160	Computer Aided Drafting I	2	3	2813
	HVAC Systems I		2	3
	Motors & Controls		3	3
7730	Wotors & Controls		-	19
y	Ob I dow unipercinal vision I	mto 3/m		CINESI
Sixth				i e
9403	Co-Op Employment Engineering Tech	. 1	40	3
Sever	nth Term	Econe	Micre	1512
102x	Oral Communications Elective	3	0	SE 33
2293	Physics III	3	2	0413
	Technical Elective			3
				3
	CAD Architectural		3	
	HVAC Systems II		2	3
7547	Pumps and Piping System Design		_ 2	3
		12	8	18
Eight	h Term	CHIE	TID	Sever
	Co-Op Employment Engineering Tech			
5.00	reflective 3 0	1 Scion	Sport.	1588
	Term Technical Writing I		0	2293
	Social Science Elective			84 3
	Macro Economics		0	3
	HVAC Systems III		3	4
7557	Controls and Safety System Design	. 3	2	3
	Electrical Power Systems		2	4
	Joymont Engineering Tech 1 40		72	20
Tenth				taniel
9405	Co-Op Employment Engineering Tech	. Ib	40	2
	unicarions Elective			109
				17/75/17

Mechanical Engineering Technology (MET)

Mechanical Engineering Technology produces graduates with the ability to combine problem solving skills and computer aided design skills to create new machine and product designs, and solve problems of existing machine and product designs. Classes concentrate heavily on mathematics and problem solving skills. Computervision, CTC's computer design facility, is used to teach students computer aided design and computer aided drafting. Graduates of the MET program assume positions such as CAD/CAM system operator, machine and product design technician, and mechanical systems design technician.

NOTE: An established evening school program exists where the evening school student can complete all of the courses in the MET curriculum in 3 years, attending class two nights per week.

Mechanical Engineering Technology Curriculum

		Hours Per		Cred
		Class	Lab	Hou
First 1			3.0.3	940
	English Composition I		0	3
	Algebra & Trigonometry I		0	4
2291	the state of the s		2	3
	Engineering Drawing I		4	3
	Introduction to Machine Tools Process			3
7160	Computer Aided Drafting I		-	3
		17	11	19
Secon	nd Term			
9401	Co-Op Employment Engineering Tech	. 1	40	3
Third	Term has a state of an alternative	land of	1-03	ONE
1192	Algebra & Trigonometry II	. 4	0	4
2292	Physics II	. 3	2	3
7030	Computer Programming - Basic	. 2	2	3
7111	Engineering Materials	. 3	2	3
7130	Engineering Mechanics	. 3	2	3
7165	Computer Aided Drafting II	. 2	3	3
	g Tarana Jan	17	11	19
5	Land known a louin		doM t	RTY
	h Term		40	3
9402	Co-Op Employment Engineering Tech	•	40	led?
Fifth 1				940.
	Analytic Geometry & Calculus I		0	4
	Micro Economics			3
	Hydraulics and Pneumatics			4
	Strength of Materials			4
7170	Computer Aided Design		2	_ 3
		18	6	18
Sixth	Term	than eq	real 7	156
9403	Co-Op Employment Engineering Tech	. 1	40	3
	nth Term	П	nel di	sylä i
	Technical Writing I		0	3
	Social Science Elective		0	3
	Physics III			3
	Mechanisms Analysis and Design			3
	Basic Thermodynamics			3
7150	Machine Design I	. 4	2	4
		12	9	19
	Safety System Design 3 2	we ilon	noû s	288
	h Term Co-Op Employment Engineering Tech	. 1	40	2
			T.J	Levol"
Ninth	lerm			
Ninth 1015	Technical Writing II	. 3		3

	5 Intro to Labor Management Relations			3
715	5 Machine Design II	. 4	2	4
715	8 Mechanical Systems Design Project	. 3	0	3
770	8 Electric Fundamentals and Control	3_	3	4
		19	5	20
	th Term	(15)	ant be	8 Secon
940	5 Co-Op Employment Engineering Tech	. 1 g	40	2
				108
n	nmended Technical Electives:			
	UCU December Leading			
	"C" Programming Language Forth Programming			
	Descal Descarancing			
	Intro to Applied Statistics			
	Analytic Coometry and Calculus II			
	Physics II			
	Computer Programming - Fortran			
	NC/CNC Programming I			
	Introduction to Robotics			
	Special Problems Seminar—			
	Computer Aided Manufacturing Mechanical			
, 113	comparer ridea mandiacturing mechanical			

Physical Sciences and Mathematics Division

Division faculty have been selected for their dedication and academic preparation to fulfill the two major functions of the division:

 teaching the principles of physics, chemistry, mathematics and computer programming considered basic for successful study in a science dependent field such as engineering technology, health or technical business services

 providing in-depth instruction to the applied sciences leading the student to a career in industrial laboratory, industrial software development or laser-electro-optic systems.

It is important to note that course recommendations in physical sciences and mathematics at CTC are determined by the readiness of each student. Readiness is determined during the admission process through testing and an interview. Faculty are chosen for their abilities to communicate effectively with students, for their knowledge of subject matter as well as their experiences in business and industry. As a result, the chances for student success in physics, chemistry and mathematics are greatly enhanced.

Mathematics Readiness and Placement Service

Since it is not unusual for a college student to experience math anxieties as he or she faces a technical career, the mathematics department is happy to offer the services of a mathematics placement test designed for the specific type of technology of interest to the student. It is important for students to realize that the test cannot be failed. The placement test is designed to be a placement tool, and students are strongly encouraged to take advantage of this service before registration occurs. There is no charge for the test. The results of the test assist the student in choosing a sequence of math courses suited to his or her technology major and general area of interest.

Students wishing to brush up on skills prior to enrolling in a regular course sequence should refer to the Developmental Education courses listed in this catalog.

Service to the Community - Industrial Training

Faculty in the Physical Sciences and Mathematics Division welcome inquiries involving retraining from individuals and corporations. A program may vary from a single course to a series of programs. Resources are available to assist and advise individuals

Mathematics and Physical Sciences Offerings

Each sequence of mathematics course is tailored to meet the requirements of the curriculum served and to provide additional skills as elected by the student.

Courses Serving General Student Interests:

- 1132 Statistics
- 1151 Pre-Calculus Math: Algebra
- 1152 Pre-Calculus Math: Algebra
 1152 Pre-Calculus Math: Trigonometry
- 1153 Elementary Analysis
- 1154 Calculus I
- 1155 Calculus II

Sequence of Courses Serving Chemical and Health Technology Students:

- 1105 Health Mathematics
- 1150 Introduction to Science Mathematics Olympia 00-00 1000
- 1170 Introduction to Technical Mathematics
- 1171 Technical Mathematics I
 1180 Applied Statistical Analysis

Sequence of Courses Serving Business Technology and **Business Programming Students:**

- 1120 Introduction to Business Mathematics
- 1121 Business Mathematics
- 1122 Financial Analysis
- 1123 Computerized Financial Analysis
- 1124 Business Algebra
- 1126 Computer Mathematics 129 the many classic groups of the same polymers of the same polyme
- 1127 Business Statistics
- 1128 Business Calculus

Sequence of Courses Serving Computer Science Technology Students 1126 Computer Mathematics

- 1140 Introduction to Linear Algebra
- 1141 Matrix Algebra
- 1142 Probability & Introduction to Quantitative Analysis
- 1143 Quantitative Approach to Operations Research

Sequences of Courses Serving Engineering Technology & Seventh Term **Physical Sciences Technology Students:**

- 1170 Introduction to Technical Mathematics
- 1171 Technical Mathematics I
 1172 Technical Mathematics II
- 1173 Technical Mathematics III Described Isolador 1800
- 1179 Introduction to Applied Statistics
- 1180 Applied Statistics Analysis
- 1191 Algebra & Trigonometry I
- 1192 Algebra & Trigonometry II
- 1193 Analytic Geometry & Calculus I
- 1194 Analytic Geometry & Calculus II
- 1195 Analytic Geometry & Calculus III

Physics and chemistry, are, of necessity and tradition, laboratory sciences. Many students cannot know without doing. Actual observation and manipulation allow physical laws, concepts and hypotheses to take on real meaning in the mind of the students. The sciences department therefore places much emphasis on the laboratory. Care is taken to ensure all laboratories are well supplied with equipment. The laboratory experiences, pointing the way for students, assist them to organize an attack on the problem, encourage the students to use their own ingenuity and thoughts while carrying the investigation to a conclusion; and, finally, prepare a report of the findings.

Introductory Courses Serving General Student Interests:

- 2200 Basic Chemistry
- 2270 Introduction to Physics

Sequence of Courses Serving General Student Interests:

- 2231 Fundamentals of Inorganic Chemistry
- 2232 Fundamentals of Organic Chemistry

- 2233 Fundamentals of Biochemistry
- 2241 College Physics I
- 2242 College Physics II

Sequence of Courses for Students With Specific Needs:

- 2221 Technical Physics I
- 2222 Technical Physics II
- 2223 Technical Physics III
- 2244 Health Physics I
- 2245 Health Physics II
- 2263 Physical Science for Graphic Communications 107 disposition

Sequence of Courses Serving Engineering Technology & Physical Sciences Technology Students: 2291 Physics I

- 2292 Physics II
- 2293 Physics III
 2294 Physics IV

Computer Science Courses:

- 1133 BASIC 2 for Science & Engineering Technologies
- 1134 Macro FORTRAN & Microcomputers
 1135 "C" Programming I visualization of the progra

- 1136 FORTH Programming I
 1137 PASCAL Programming I
- 1138 Introduction to Computer Graphics & Modeling
- 1139 Introduction to XENIX/UNIX

For the student who relates strongly to the sciences and is excited by expanding technology, skilled faculty are proud to offer degree programs focusing on the latest information and techniques leading to careers in industrial laboratory and materials testing services or in the dynamic new fields of laser-electrooptic systems and industrial software development. Technical core courses for these fields are described in courses numbered in the range of 6600 to 6999.

Laser/Optics Technology (LOT)

CTC's Laser/Optics program is the first of its kind in Ohio and one of the few associate degree programs in laser technology in the country. The curriculum includes the basic aspects of laserelectro-optics theory.

Co-op opportunities are very limited at this time.

Recommended courses from high school are algebra I and II, chemistry, geometry and programming.

Students who have not successfully completed the recommended high school courses prior to acceptance into the laser/ optics program may take qualifying course work at CTC and should plan to study longer than two years to meet graduation requirements.

Laser Optics yaclogopy Technology Strike **Technology Curriculum**

Admissions Requirements: Two years of algebra; geometry, chemhe physical and chemical properties of materials are measuvitai As a well-prepared lab technician, the graduate will apply the

Hihe taking, recording, compiling and reporting	ours Pe	r Week	Credi	
	Class	Lab	Hours	
First Term agla are loorly rigid mon assuppo				
1001 English Composition I	3	0	3	
1191 Algebra & Trigonometry I	4	0	4	
2291 Physics I	3	2	3	
1191 Algebra & Trigonometry I 2291 Physics I 6710 Introduction to Lasers	3	2	4	
7710 DC Circuit Analysis	6	0	4	
7711 DC Circuits Lab		3	1	
	19	7	19	

Second Ter			_						
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9601 Co-Op Employment PST Technology 1

	ls of Biochanistro	s Image	French	SEC
■ Third				
100x	English Composition Elective	3	0	3
1192	Algebra & Trigonometry II	4	0	4
2292	Physics II	3	2	3
6720	Geometrical & Wave Optics	3	3	5
	AC Circuit Analysis			4
7721	AC Circuits Lab	. 0	3	1
,,,,		19	0	20
	CS T	19		20
Fourt	h Term Co-Op Employment PST Technology	al Scie	40	889
2 vpn	lond of privated Engineering Technolis	100 10	9000	uni
Fifth		SBORRE	ing has	
	Analytic Geometry & Calculus I		0	4
151x	Economics Elective	3	0	3
6730	Optical Components/Devices	3	3	5
7030	Computer Programming - Basic	2	2	3
7730	Electronics I	6	3	5
	e Courses:			
	The state of the s	2.10r.Sc	BASIC	
Sixth				
9603	Co-Op Employment PST Technology	ogfarra 4 Greun	40)	3
	nth Term I gnimms	L Progr	PASCA	37
XXXX	Elective/Coord Approval Required	. 3	2	3
102x	Oral Communication Elective	3	0	3
15xx	Social Science Elective	3	0	3
6740	Applications of Lasers	3	3	5
7740	Electronics II	. 4	2	4
				-
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Eight 9604	h Term Co-Op Employment PST Technology	evices and	40	2
Ninth	Term	o dinet si 00aa	de esse	2 200
xxxx	Elective/Coord Approval Required	. 3	2	3
101x	Technical Writing Elective	3	0	3
15vv	Social Science Elective	3	0	3
6750	Laser/Electronics Optic Measurement	. 3	3	5
	Electronics III		2	4
one oil	es program is the first of its lend in Ol	16	2572	18
ni vanl	sciate degrae programs in lasér rechno	2836 4/	the k	0.90
	Termique aixed et le basic aspirat		nuntry	xo er
9605	Co-Op Employment PST Technology	s fregg	40	2
			omme	
	Composition Electives: 1002, 1007, 1009, 10			
conom	ics Electives: 1512, 1513	n orlw	(741 (7	Stur
6999	Coordinator Approval Required: 1194, 1195, 7728, 7738, 7743, 7748, 7768			
	mmunication Electives: 1020, 1024			
ocial C	cience Electives: 1502, 1505, 1506, 1508, 15	00 152	1 1522	15.2
1525	1527 1531 1535 1536 1500	152	1, 1323,	1324
1525,	1327, 1331, 1333, 1330, 1333			
1525,	1527, 1531, 1535, 1536, 1599			

Industrial Laboratory Technology

The Industrial Laboratory Technician major is designed to prepare the student for employment in a testing laboratory in which the physical and chemical properties of materials are measured. As a well-prepared lab technician, the graduate will apply the concepts from statistics and science to the planning and execution of tests and to the taking, recording, compiling and reporting of measurement data.

Recommended courses from high school are algebra I and II, biology, chemistry, geometry and physics.

Students who have not successfully completed the recommended high school courses prior to acceptance into the industrial laboratory program may take qualifying course work at CTC and should plan to study longer than two years to meet graduation requirements.

Industrial Laboratory Technology Curriculum

Admissions Requirements: algebra I, algebra II, geometry, chemistry, biology

	General Student Interests:	Hours Pe	r Week	Cred
	reneral student microsis:	Class	Lab	Hou
First T	erm	CONTRACTOR OF THE PARTY OF THE	- E)	315
1001	English Composition I	. 3	0	3
1191	Algebra & Trigonometry I	. 4	0	4
	Physics I	. 3	2	3
6611	Technical Laboratory Chemistry I		3	4
	Science of Materials		2	4
	ses Serving Chemical and Health Te		7	18
		103	nobu	2 18
	d Term Co-Op Employment PST Technology	ou Jub	40	1105 850
Third	n to fectinical Mathematics mark	onsolo Micsin	doel	DAIL
100x	English Composition Elective	. 3	0	3
113x	Programming Elective	. 2	2	3
1192	Algebra & Trigonometry II	. 4	0	4
15xx	Social Science Elective	. 3	0	3
2292	Physics II	. 3		3
6621	Technical Laboratory Chemistry II	. 3	3	4
	Analysis -	18	-	20
Fourt	h Term	nputer	Con	SIT.
9602	Co-Op Employment PST Technology	in plane	40	3
Fifth 7	Term alculus	s getannis Umices (THE BUT	112
XXXX	Elective/Coord Approval Required	. 3	2	3
1179	Introduction to Applied Statistics	. 4	0	4
2293	Physics III	. 3	3	3
6631	Technical Laboratory Chemistry III	. 3	3	4
6639	Fundamentals of Physical Measure	. 3	2	4
		16	9	18
Sixth	Term and againment of not be want av	babilu antitati	2 Pro	114
9603	Co-Op Employment PST Technology	. 1	40	3
	Technology Students: mraT dt	iences	cal Sci	
101x	Technical Writing Elective	. 3	0	3
1180	Applied Statistical Analysis	. 4	0	4
1193	Analytic Geometry and Calculus I	. 4	0	4
6641	Technical Laboratory Chemistry IV	. 3	3	4
6649	Materials Testing	3	4	5
		17	7 0	20
	Term (Lystemonogra)	A syla	OIA T	119
Eight	C- O- F	. 1	40	2
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9604 Ninth	Term Elective/Coord Approval Required	. 3	2	4
9604 Ninth xxxx 102x	Term Elective/Coord Approval Required Oral Communication Elective	. 3	2 0	4 3
9604 Ninth xxxx 102x 15xx	Term Elective/Coord Approval Required	. 3	0	3
9604 Ninth xxxx 102x 15xx 151x	Term Elective/Coord Approval Required	. 3	0	3
9604 Ninth xxxx 102x 15xx 151x 2294	Term Elective/Coord Approval Required Oral Communication Elective Social Science Elective Economics Elective Physics IV	3 3	0	3 3 3
9604 Ninth xxxx 102x 15xx 151x 2294	Term Elective/Coord Approval Required	. 3	0	3 3
9604 Ninth xxxx 102x 15xx 151x 2294 6659	Term Elective/Coord Approval Required Oral Communication Elective Social Science Elective Economics Elective Physics IV	3 3	0	3 3 3
9604 Ninth xxxx 102x 15xx 151x 2294 6659	Term Elective/Coord Approval Required	. 3 . 3 . 0	0 0 2 5	3 3 3
9604 Ninth xxxx 102x 151x 2294 6659	Term Elective/Coord Approval Required	. 3 . 3 . 0	0 0 2 5	3 3 3

English Composition Electives: 1002, 1007, 1010

Programming Electives: 1133, 1134, 1135, 1136, 1137, 1138, 7030

Social Science Electives: 1502, 1505, 1506, 1508, 1509, 1521, 1523,

1524, 1525, 1527, 1531, 1535, 1536, 1599

Elective/Coordinator Approved Request: 1194, 1195, 4000, 4009, 6661, 6670, 6710, 7031, 7441, 7704, 7708, 7710, 7711
Technical Writing Elective: 1010, 1015, 1017, 1018

SQC/SPC Training

Increasing demands on industry to implement statistical process control (SPC) as an essential component in the production and manufacturing process have served to place Cincinnati Technical College at the leading edge in the technical educational community. The CTC faculty, with experience in manufacturing, quality control and applied statistics, is certified to teach state-of-the-art theory and practices of SPC. Currently, the College offers courses covering the relevant topics of applied statistics, SPC, reliability, experimental design and quality circles; and by 1986-1987, CTC will have formalized a full-fledged program in the SPC. Considering the time and location constraints of the numerous industries in the Cincinnati area, CTC also offers SPC in a customized plant-site modular format for direct company implementation. Contact the Manufacturing Engineering Technologies or Statistics Department for detailed information.

A certificate of recognition is awarded upon completion of each module.

Module I Introduction to Statistical Reasoning

An introduction to descriptive and inferential statistics as applied to industry. Collection and organization of data including mean, median, range, standard deviation, z-scores, etc., including graphical displays. Basic concepts of probability, probability distributions (bionomial, normal, etc.) and the central limit theorem. Testing hypotheses concerning means and proportions. Simple linear regression ("forecasting") and correlation. Many applied problems from a wide variety of industrial settings will be examined. A scientific calculator (preferably with STAT capabilities) is required.

Module II Introduction to Statistical Process Control

An introduction to modern industrial quality control—statistically oriented with emphasis on the "continuous improvement" philosophy. Preparation and analysis of histograms, Pareto charts, cause and effect (fishbone) charts, etc. Statistical control charting (X, R, p, np, c, u, etc.) applied to process stability and capability with emphasis on data collection, measurement concepts (including geometric tolerancing), chart preparation and chart interpretation. Many applied problems from a wide variety of industrial settings will be examined. A scientific calculator (preferably with STAT capabilities) is required.

Module III Applied Statistics and Quality Design

A continuation of modules I and II, the emphases here being the statistical methods to assure that products are designed properly. The "power tools" of statistics are introduced: testing hypotheses concerning two or more samples, analysis of variance (ANOVA), experimental design and orthogonal arrays, multiple regression, reliability and nonparametrics. As in the previous modules, the applied programs come from a wide variety of industrial settings.

Module IV Group Dynamics and Quality Circles

This module helps people understand themselves and their roles as communicators, improve their small group communication skills, develop problem-solving strategies as group members and apply theories to their work (i.e., quality circles) and personal relationships.

Industrial Software Technology

The Industrial Software Technology major is designed to provide for employment in technical software programming. The graduate will have a technical background that includes math and science; knowledge of the various capabilities and limitations of mini and micro computers; and selected low and high-level languages. The graduate will be a valuable team member in the developing, modifying, maintaining and documenting of technical systems/programs for commercial and industrial applications.

Recommended courses from high school are algebra I and II, geometry, chemistry, typing.

Students who have not had sufficient high school preparation prior to acceptance into this major may take qualifying course work at CTC and should plan to study longer than two years to meet graduation requirements.

Industrial Software Technology Curriculum

Prerequisite skills for entering students: algebra I, algebra II, geometry, chemistry, typing

	ours Pe Class	r Week Lab	Cre
First Term	Ciass	Lab	1100
1001 English Composition I	3	0	3
1191 Algebra & Trigonometry I	4	0	4
6106 Modular Programming	2	1012 3	1153
6110 Software Documentation		19 8	
6611 Technical Laboratory Chemistry I	3	_	4
an will be attractive to anyone whose cares	14	-	17
Second Term 9601 Co-Op Employment PST Technology	boo	40	3
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Third Term 1141 Matrix Algebra	entire	y Yuzuch	12
1141 Matrix Algebra	4	0	4
1 192 Algebra & Irigonometry II	4	0	4
6111 PL/M Programming	-	2	3
6112 Device Control Software	-	2	3
6621 Technical Laboratory Chemistry II	3	310	4
	15	773	18
Fourth Term		ni Tech	
9602 Co-Op Employment PST Technology	1111	40	3
" or better at either CTC or another mraThifi	of to	SELLE	VE.
102x Oral Communication Elective	3	0	3
1193 Analytic Geometry and Calculus I	4	0	4
151x Economics Elective		0	2
151x Economics Elective	3	IS SING	2
6113 Real Time Programming		2	3
6127 Passal Programming II	2	2	
6137 Pascal Programming II			_ 3
	17	6	19
Sixth Term 618 50 Room mangony 2.1.A mano) VSVI	SHIGH	15010
9603 Co-Op Employment PST Technology	Vijin	40	3
Seventh Term		(.03	6110
xxxx Elective/Coordinator Approved Request	3	2	3
1010 Technical Writing I	3	0	3
15xx Social Science Elective	3	0	3
2202 Physics III	2	2	2
2293 Physics III	3	2	3
6115 Micro/Mini Operating Systems		2	
7031 Computer Programming - Fortran		1 - 2	3
	17	7	18
Eighth Term			. 1
9604 Co-Op Employment PST Technology	di	40	112
Ninth Term	THE REAL PROPERTY.		1
xxxx Elective/Coordinator Approved Request	3	2	3
1015 Technical Writing II		0	3
113x Programming Elective	2	2	3
1179 Introduction to Applied Statistics	4		4
150x Psychology Elective	3	0	3
6118 Systems Implementation Project	1	4	3
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Conth Town	be se	W SSI	ens
Tenth Term 9605 Co-Op Employment PST Technology			
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ral Communications Florting, 1020, 1024			
ral Communications Elective: 1020, 1024 on onomics Electives: 1512, 1513			

Social Science Electives: 1502, 1505, 1506, 1508, 1509, 1521, 1523,

Associate of Individualized Study

To maximize the College's ability to meet particular career education needs, CTC offers the Associate of Individualized Study program. This program allows for the consideration of total individual educational needs and, in cooperation with career consultants from the business/industrial community, provides planning for an A.I.S. program to respond to those needs.

Who Should Apply

The A.I.S. program will be attractive to anyone whose career education objectives cannot readily be met through one of the more structureed associate degree programs offered by the College. In order to be admitted the applicant must meet the following requirements:

1. Submit written justification for admission to this degree program in preference to one of the other associate degree program and entire a social black the College

grams and options available at the College.

2. Demonstrate a level of maturity and motivation which gives promise of success in handling the responsibilities inherent in such a program.

3. Satisfy the general admissions requirements of the Cincin-

nati Technical College.

4. Demonstrate at least a minimal academic aptitude by completing a minimum of six quarter college credit hours with an average of "C" or better at either CTC or another recognized institution of higher education.

Declare candidacy for the program at such time as the minimum six quarter college credit hours have been accumu-

lated.

At the time of candidacy, plan an acceptable curriculum which must meet the approval of the A.I.S. Approval Committee.

Final approval of an A.I.S. program must be granted by the Associate of Individualized Study Review Committee. (This committee consists of division deans and the Director of the A.I.S. program.)

All advising will be coordinated by an assigned A.I.S. advisor. The applicant will receive counsel from professionals in business/

industry and appropriate members of the CTC staff.

For additional information on the Associate of Individualized Study program contact the Director of Continuing Education and A.I.S. program.

Continuing Education and Extended Services

As more students with greater diversity of needs enroll, the College has developed different and improved ways of serving those needs. The recent trends being experienced may be categorized in the following ways:

Changes in Academic Needs

There has been a large increase in the number of students who have already started a career and wish to develop it further through more education. Typically, these students also feel a need to update their technical education and possibly attempt different career directions without interruption to their current employment.

CTC can respond to the business-industrial-professional communities' requests to provide off-campus courses to up-grade employee skills. In addition, the College works with professional and technical societies, organizations and trade unions to offer short-term and long-term programs for their members.

Change in Scheduling

Since there is an increase in the number of students who are employed full-time, the College has increased the evening and Saturday offerings so that different career aspirations can be pursued while the students continue to work during regular daytime hours.

Cincinnati Technical College offers the following associate degree and certificate programs through the main campus evening program:

Business Technologies Division

business management
computer information systems programming
loss control
management information systems
managerial accounting
marketing management
real estate/property management
industrial sales marketing
office specialist

Engineering Technologies Division

electronics engineering technology
electro-mechanical engineering technology
biomedical electronics technology
computer integrated manufacturing engineering technology
mechanical engineering technology

Health Technologies Division

medical record technology unit clerk/coordinator certificate electrocardiography certificate

Physical Sciences/Mathematics Division

industrial laboratory technology - industrial lab & industrial software laser/optics technology

To pursue a degree program at night, the student should apply for admission and meet the admissions criteria for that program.

Change in Locational Needs 2002 and 2012 being A III aludud

The trend toward more students who are working full-time also means that these students have generally more compacted daily schedules. Travel time and the energy expense of going to and coming from classes are becoming greater concerns. More students need classes located closer to their residences or to their places of employment.

Cincinnati Technical College has addressed these student needs by increasing its degree and certificate program offerings in evening and in convenient locations. Cincinnati Technical College provides concurrent course offerings through its extension centers located within the College service area. CTC extension centers are located at Anderson High School, Colerain Vocational Center, Northwest Vocational Center and Oak Hills High School.

The continuing education operations also include recreational and leisure-time courses offered for the more casual interests of students.

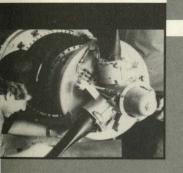




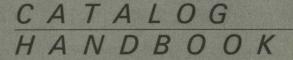


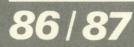








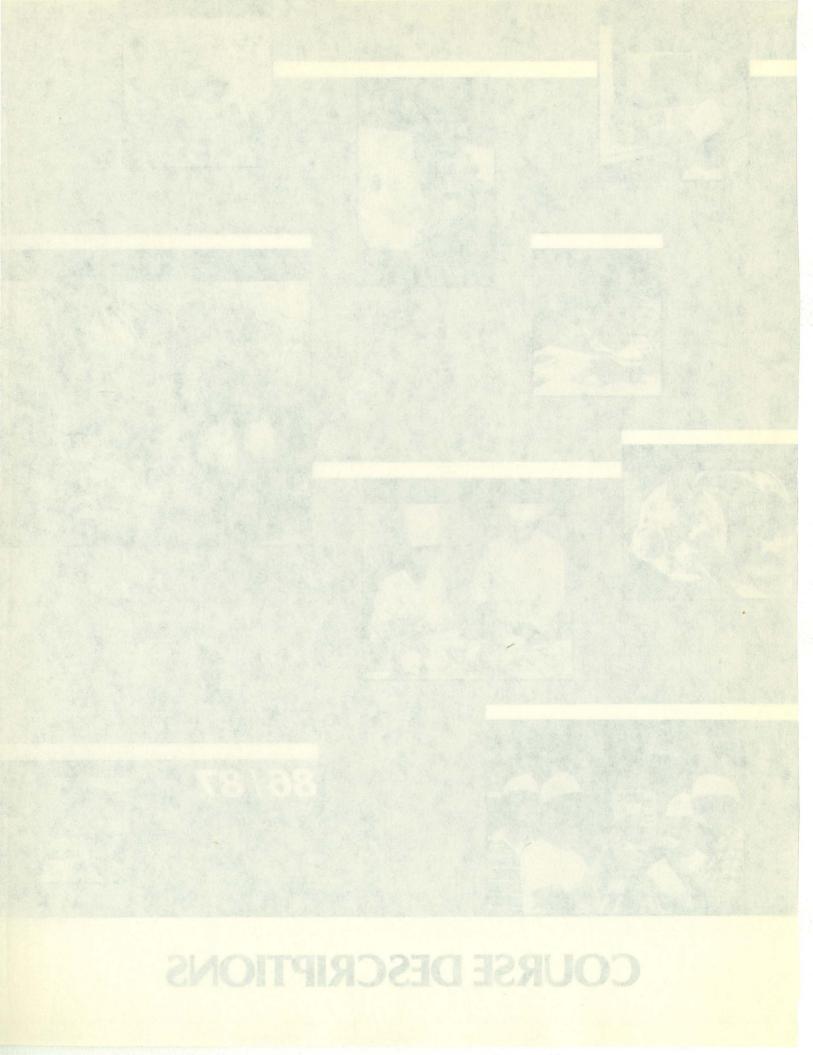




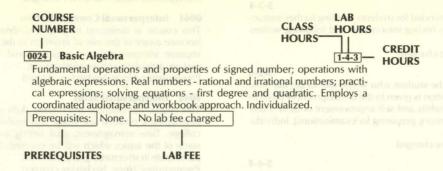




COURSE DESCRIPTIONS



Understanding Course Descriptions



Course Number: identifying code for each course in a curriculum.

Class Hours: number of hours per week of lecture or individualized instruction.

Lab Hours: number of hours per week in laboratory instruction. Lab hours are usually in addition to class hours.

Credit Hours: academic credit awarded for successful completion of the

Prerequisites: any course(s) which must be successfully completed before a student may enroll in the course.

Co-requisites: any course(s) which must be taken at the same time or at a previous time as the course listed.

Lab Fees: a fee in addition to the regular tuition which covers the cost of labroatory supplies for a particular course. A listing of current lab fees is available in the division offices.

0142 Basic Home Maintenance & Repairs 2-0-0

A five week course for the first time homeowner. This course presumes nothing, that is, we presume you know nothing or little about tools and how to use them. Emphasis is on showing you which repairs you can take on and which you ought to get help for. Topics will include: plumbing, heating and insulation, painting, electricity, general repairs inside and outside.

Prerequisites: None

0192 English Conversation-English as a Second Language Conversation and pronunciation class for students who speak English as their second language. The course is for intermediate to advanced students.

Prerequisites: None.

0261 Graphic Arts Workshop

This course will consist of the lithographic process and papers' relationship to the flow of printing production.

Prerequisites: None.

0262 Typesetting

Basic fundamentals of setting boundy type. Operation of the Intertype and Ludlow hot metal machines. Operation of the Comp/Set 510 & 504 and Compugraphic Editwriter 7500 phototypesetters. Emphasis is placed on operation of the phototypesetters and the preparation of camera ready art. Lab projects are required.

Prerequisites: None.

0263 Color Separation

This course will require five (5) three (3) hour sessions. The first three (3) sessions will deal with color theory and color practices in the printing industry. The last two (2) sessions will be hands-on training of direct color separations using the horizontal camera.

Prerequisites: None. Lab fee charged.

0264 Color Stripping

Hands-on training in advanced color film assembly for the graphic arts industry. Students will learn skills in 4 color stripping; choke and speed; screen tints; drop out drop in color type and pin register systems. Prerequisites: None. Lab fee charged.

0305 Photography

This course will provide the student with a working knowledge in color and black/white photography. Students will study composition, design, lighting, special effects and other elements of photography. Requirement is a 35 mm camera. Course is designed for beginners through advanced amateur.

Prerequisites: None.

0307 Advanced Camera & Darkroom Operation

Types and uses of photocopy and process cameras. General and special uses of films, uses and application of screens. Uses of precise measuring calibration darkroom instruments and darkroom techniques including chokes and spreads. Making line and half-tone negatives. Contacting and making multiple proofs. Simple stripping with step and repeat. This course is designed to meet needs of people currently working in lithographic related industry and artwork (\$15 lab fee), which is included in

Perequisites: See description.

0500 Certification Review for Medical Assistants 0-0-0

This course will provide a basic review and study preparation for any Medical Assistant interested in preparing for the National Certification Examination given by the American Association of Medical Assistants or any Medical Assistant interested in updating skills and knowledge. Prerequisites: None.

0001 English Grammar Administrational and reveal being been not

This course deals with the words and language of the grammatical system of standard English. Correct usage is stressed. Prerequisites: None. No lab fee charged.

0002 College Spelling

An individualized spelling improvement program. Uses multisensory approach to develop desirable spelling attitudes and habits. Also stresses word analysis and proofreading.

Prerequisites: None. No lab fee charged.

0003 Basic Writing I

After an analysis of strengths and weaknesses in writing, student is given instruction and practice in the construction of clear, error-free sentences and messages.

Prerequisites: 0001 or equivalent. No lab fee charged.

0004 Basic Writing II

Emphasizes paragraph organization and transitional devices in longer composition; punctuation.

Prerequisites: 0003 or equivalent. No lab fee charged.

0007 Telephone Techniques

Develops confidence and accuracy in the use of the telephone for business. Stresses clarity and enunciation.

Prerequisites: None. No lab fee charged.

0008 Oral Reports

Enlarges student's concept of skill in oral communication. Provides means for each student to develop clear and accurate reports. Prerequisites: 0003 or equivalent. No lab fee charged.

0010 College Reading I

3-2-4

Instruction and practice to develop flexibility in reading, improve vocabulary; and sharpen comprehension. Diagnostic and prescriptive testing; individualized, multi-media.

Prerequisites: None. No lab fee charged.

0011 College Reading II College Continuation of 0010. Recommended for students needing further improvement in reading skills.

Prerequisites: 0010 or equivalent. No lab fee charged.

0012 Technical Reading I

toemoolsved knostegraful 3-2-4

Develops skills and vocabulary needed to succeed in a particular tech-

0-0-0

nology through an individualized curriculum drawn from the reading required. Emphasizes purposeful reading.

Prerequisites: 0010 or equivalent. No lab fee charged.

0013 Technical Reading II

3-2-4

Continuation of 0012. Recommended for students needing further instruction and practice. Emphasizes finding information and following written

Prerequisites: 0012. No lab fee charged.

0014 College Study Skills

3-2-4

A comprehensive course for the student who would like to get the most out of his or her courses. Attention is given to the development of positive attitudes toward good study habits and self-improvement of basic study skills (such as note-taking, memory, preparing for examinations). Individualized.

Prerequisites: None. No lab fee charged.

0017 Speed Reading

2-4-4

This course is designed to help readers increase their reading efficiency. This course will increase recall, and eliminate inefficient reading habits while improving speed, comprehension and memory. Speed reading offers specific techniques to help readers process written materials quickly while extracting essential information. This course uses several approaches, processing skill development, visual/perceptual training and concept development, to improve speed and comprehension. Prerequisites: 0013. No lab fee charged.

0020 Basic Mathematics I-Individualized

Individualized instruction and practice in the fundamental skills of mathematics. Assignments for each student as determined by diagnostic test. Topics available: whole numbers and related operations, primes, composites, factoring, common fractions, decimals, percent.

Prerequisites: None. No lab fee charged.

0021 Basic Mathematics II-Individualized Continuation of 0020. Recommended for students needing further instruction and practice in computation and application. Prerequisites: 0020. No lab fee charged.

0022 Essentials of Mathematics

A review of mathematical principles and computations. Individualized instruction and practice in the fundamental skills of mathematics. Assignments determined by diagnostic testing. Basic topics available: whole numbers, common fractions, decimals, percent, metric system. Prerequisites: None. No lab fee charged.

0023 Basic Geometry

Individualized instruction in basic concepts of Geometry. Focuses on the study of the measurement and relationships of lines, angles, plane (flat) figures, and solid figures. Included is the study of angles, triangles, perpendicular lines, tangents, and the study of distance, area, and volume. Prerequisites: None. No lab fee charged.

0024 Basic Algebra I-Individualized

Fundamental operation and properties of signed numbers. Operations with algebraic expressions. Real numbers - rational and irrational numbers. Practical expressions, solving equations - first degree and quadratic, graphing. Employs a coordinated audiotape and workbook approach. Prerequisites: None. No lab fee charged.

0025 Basic Algebra II-Individualized

3-2-4

Continuation of 0024. Recommended for students needing futher instruction and practice.

Prerequisites: 0024. No lab fee charged.

0030 Basic Concepts Biology

3-2-4

A survey of the study of life processes. Included: terminology, basic principles of biology, laboratory experiences. Prerequisites: None. Lab fee charged.

0031 Basic Concepts Chemistry

A survey of general chemistry. Included: terminology, basic principles of chemistry, laboratory experiences.

Prerequisites: None. Lab fee charged.

0036 Basic Concepts of Medical Terminology 3-2-4 Course will provide an introduction to major medical word parts, this will include word roots, prefixes and suffixes. Emphasis will be placed on medical word building, compounding medical word parts and special emphasis on saying, listening to and spelling words as an aid to study procedures.

Prerequisites: None. No lab fee charged.

0040 Interpersonal Development

3-2-4

Focuses on the development of the total person; develops an awareness

of the personal skills needed to succeed in college and of those habits which inhibit success; each student plans and implements a workable schedule for self.

Prerequisites: None. No lab fee charged.

0041 Interpersonal Communication

This course is designed to help a student become self-directed, to become aware of the role of assertion in the communication process, to improve interpersonal and organizational skills and to develop as a mature, articulate, self-assured person.

Prerequisites: None. No lab fee charged.

0042 Interpersonal Skills

3-2-4

This course will examine and discuss skills which will aid the student in developing a positive self-image and enable the student to succeed in college. Time management, goal setting and communication skills are some of the topics which will be covered. Students will be required to participate in structured group activities. Prerequisites: None. No lab fee charged.

0043 Interpersonal Skills II

This course is an extension of Interpersonal Skills I. The student develops an individual project to demonstrate mastery of concepts discussed in Interpersonal Skills I.

Prerequisites: 0042. No lab fee charged.

0049 College Orientation Out of 226 to 1 rembbs of close 1 1-0-1

This course is designed to give students an in-depth orientation into the college, its programs and all student services functions. Representatives from various departments will present their programs to the students. Also college survival skills will be discussed in the class (role playing, class participation). This course is primarily for Developmental Education stu-Prerequisites: None. No lab fee charged.

0050 Orientation to Business

A basic introduction to the language, principles and practices of business. The course is designed to introduce students to the very basic elements of business.

Prerequisites: None. No lab fee charged.

0057 Pre-Accounting Windows & south and the stand 3-2-4

This course emphasizes reading strategies, vocabulary terms and math concepts for success in accounting courses. It covers the basic accounting equation, the accounting cycle and related terminology, as well as the Income Statement, the Statement of Owner's Equity and the Balance Sheet.

Prerequisites: None. No lab fee charged.

1001 English Composition I

3-0-3

Syntax, the composition of clear and effective sentences; paragraphs and usage; the composition of a theme.

Prerequisites: None. No lab fee charged.

1002 English Composition II

Composition of themes; emphasizing types of development; syntax, composition of clear and effective sentences; principles of library research.

Prerequisites: None. Lab fee charged.

1007 Research and Argumentative Writing; 1/4x3-0-3

Organization and development of argumentative writing, including research and logical and fallacious reasoning. Prerequisites: 1001 or 1002. No lab fee charged.

1008 Composition: Science Fiction

3-0-3

The composition course includes a study of masters of science fiction. Reading will include short stories and novels. Essays and research paper(s) will be required. Prerequisites: 1001 or 1002. No lab fee charged.

1009 Business English who have a few trees from the second second fill with the second second fill with the second second fill with the second second

3-0-3

Current practices in business communication; accuracy is stressed in the areas of grammar, mechanics, usage, spelling, and syntax. Prerequisites: None. No lab fee charged

1010 Technical Writing I

The principles and practices of various types of business correspondence including the letter of application and resume; audience analysis; visuals; various technical communications such as procedures, explanation of process, mechanism description, formal and informal reports. Students who register for this course should also register for an upper level course within their program major.

Prerequisites: 1001 or 1002 and 12 hours in technical area. Lab fee charged. And selectional process and a popular intercept

1011 Business Communications

3-0-3

The principles and practices of the more common types of business correspondence; informal and formal business reports; development of style. Prerequisites: 1001. Lab fee charged.

1015 Technical Writing II

The principles and practices of researching, organizing, and presenting the various types of reports germane to the student's career choice. The course focuses on both written and oral reports which include analytical subject areas such as surveys, proposals, testing, lab reports, problem analysis, and job related reports. Students who register for this course should also register for an upper level course within their program major. Prerequisites: 1010. No lab fee charged

1017 Project Research

Technical communicators must research the projects that they manage; therefore, this course will address the tasks that technical writers and editors perform as they research projects. Major tasks to be mastered include: data gathering methods, interviewing skills and techniques, questionnaire design, observation, simulation, pilot projects and walkthroughs. Literature searches using data bases will also be employed. The student will be able to identify, select and use the most appropriate method that corresponds to the project.

Prerequisite: 1007 or Equivalent Preferred

1018 Writing the Project Copy I

This introduction to technical communications examines the formats, conventions, and rhetoric of technical writing as opposed to expository writing. Topics include audience analysis, the problem solving process, readabilility criteria, and language editing. Students will be required to define technical terms and analyze equipment related to their technical field. Students will have their writing analyzed for both style and structure, and will be required to conduct a language edit of a document. Prerequisite: 3 credits of English Composition.

1020 Effective Speaking

The preparation and effective delivery of various types of speeches. Improved listening techniques, audience participation, and evaluation are stressed.

Prerequisites: None. No lab fee charged.

1024 Group Dynamics & Problem Solving 3-0-3

This course helps people understand themselves and their roles as communicators, improve their small group communication skills, develop problem-solving strategies as group members and apply theories to their work (i.e. Quality circles) and personal relationships. Students must participate in structured experiences.

Prerequisites: None. No lab fee charged.

1031 Technical Spanish

This course will provide the student with an introduction to the fundamentals of Spanish grammar with an emphasis on technical vocabulary. Prerequisites: None. No lab fee charged.

1032 Technical Spanish II

This course continues the study of Spanish grammar and syntax with an emphasis on technical vocabulary.

Prerequisites: 1031 or equivalent. No lab fee charged.

1033 Technical German

This course will provide the student with an introduction to the fundamentals of German grammar and syntax with am emphasis on technical vocabulary.

Prerequisites: None. No lab fee charged.

1034 Technical German II

2-2-3

This course continues the study of German grammar and syntax with emphasis on technical vocalulary.

Prerequisites: 1033 or equivalent. No lab fee charged.

1035 Technical Japanese

2-2-3

This course will provide the student with an introduction to the fundamentals of Japanese grammar and syntax with an emphasis on technical vocabulary.

Prerequisites: None No lab fee charge.

1036 Technical Japanese II

This course continues the study of Japanese grammar and syntax with an emphasis on technical vocabulary.

Prerequisites: 1035 or equivalent. No lab fee charged.

1037 Technical French for Culinary Professionals

This course will provide the student with an introduction to the fundamentals of French grammar and pronunciation, with an emphasis on vocabulary used in the culinary professions.

Prerequisites: None. No lab fee charged.

1099 Special Problems in Communication Skills

1-5--0--1-5

Individual study and special projects pertaining to the particular technology that the student is enrolled in. Open to students wishing advanced standing, independent study, and/or research. This course is arranged with the instructor with the approval of the Dean of the Communication Skills Division.

Prerequisites: 6 hours in Communication Skills. No lab fee charged.

1100 Math Placement Test

0-1-4

The student who registers for this test will take a basic mathematics skills test. The results of the test will enable a faculty advisor to make the proper course recommendation for each student. Following the test, students will be advised to take the mathematics course which is

most appropriate for their individual skill level. The final decision

ultimatley lies with each student. There is no additional fee for this service and the four(4) credit hour tuition will be credited to the course

Prerequisites: None. No lab fee charged.

1103 Mathematics of Finance

4-0-4 (atroduction to Microcom

Application of mathematical concepts to business activities: bank records, financial charges (including "Truth in Lending" legislation), payrolls and taxes, financial statements and inventories, statistics and computers. (Students who test out of 1101 Business Mathematics will take this course.) Completion of this course plus 4 elective credit hours will satisfy graduation requirements of 1101 and 1102.

Prerequisites: None. No lab fee charged.

1104 Financial and Statistical Analysis

4-0-4

Application of statistical analysis as related to business and an in-depth study of the mathematical analysis of business financial information in decision making.

Prerequisites: None. No lab fee charged.

1105 Health Mathematics

2-0-2

This course is primarliy for the health technologist whose work environment implies use of measurement concepts. The prime thrust is problem solving experiences within the health field: Applications of elementary math; metric, apothecary and household systems; dosage calculations. Prerequisite: Recommendation of coordinator. No lab fee charged.

1120 Introduction to Business Mathematics

A review of the basic computational skills needed for success in business mathematics especially those involving fractions, decimal fractions and ratios. Applied topics such as payroll, present value, simple interest, mark up, work down, etc. Use of an electronic calculator having the floating decimal point is encouraged. Students should register for this course after taking the math placement test. Offered as independent study or traditional lecture.

Prerequisites: 0020 or equivalent. No lab fee charged.

1121 Business Mathematics

A review of introductory topics such as payroll, present value, simple interest, mark up, mark down. Mathematics of business and banking to include promissory notes, trade and cash discounts, inventories, taxes, compound interest, finance charges. Use of an electronic calculator having the floating decimal point is encouraged. Offered as independent study or traditional lecture.

Prerequisites: 1120 or equivalent. No lab fee charged.

1122 Financial Analysis

4-0-4

Review of discounts and taxes, compound interest, present value, revolving charges. Annual percentage rate, depreciation, mortgages, amortization, insurance. Offered as independent study or traditional lecture. Prerequisites: 1121 or equivalent. No lab fee charged.

1123 Computerized Financial Analysis

Qualitative and quantitative graphs, data, etc. Stocks, bonds, and annuities. Common business, investment and banking, financial calculations, trends and forecasts taught through the use of a microcomputer. Prerequisites: 1122 and 2911. Lab fee charged.

1124 Business Algebra

programs. Boolean Algebra.

4-0-4

Review of the basic laws of algebra. Linear and exponential equations with business applications in compound interest, annuities, etc. Graphing as a problem solving method. Simultaneous equations. Linear inequali-

Prerequisites: 0024 or equivalent. No lab fee charged.

1126 Computer Mathematics and Business Data Structures 4-0-4 Review of Business Algebra. Matrices with applications in Business. Number systems and arithmetic used in computing, including an analysis of errors. Algorithms, logic and sets as applied to the design of computer

Prerequisites: 1124 or math placement. No lab fee charged.

1127 Business Statistics

An introduction to the quantitative techniques of probability and statistics as applied to modern business problems. Organization of data and graphical displays. Descriptive measures including mean, median, standard deviation and z-scores. Probability concepts, and distributions including the binomial and normal. Sampling techniques and size determination. Hypothesis testing and decision making. Forecasting, linear regression and correlation. This course is business application oriented. A sciencific calculator (preferably with STAT capabilities) is

Prerequisites: 1124 or equivalent. No lab fee charged.

1128 Business Calculus 40004

required.

Algebraic emphasis on functions and applications. An overview of limits. Derivatives and antiderivatives with their applicability to business situations. Decision making involving maximum and minimum conditions using calculus as an analytical and predictive tool.

Prerequisites: 1124 or 1131 or 1140. No lab fee charged.

1130 Introduction to Microcomputer Systems
2-2-3
Intended for anyone interested in microcomputers. A how to use and how to make use of microcomputer systems. The technical vocabulary associated with microcomputers with emphasis on tape and diskette routines. Assistance with tracking error messages. The specific microcomputer used will depend upon the models available at the campus offering the course.

Prerequisites: None. Lab fee charged.

1131 College Algebra

4-0-4

This course presents important algebraic relationships that provide supportive skills for all students in technical programs dependent on algebra. Prerequisites: Previous course work in algebra. No lab fee charged.

1132 Statistics 4-0

Descriptive statistics (mean, median, standard deviation, etc.) and organization of data, including graphical displays. Probability and probability distributions. Testing statistical hypotheses. Sampling techniques. Confidence intervals. Simple linear regression and correlation. A scientific calculator (preferably with STAT capabilities) is required.

Prerequisites: Algebra. No lab fee charged.

An intermedicate course in the use of the computer in science and engineering technologies. Computation techniques including various mathematical algorithms, use of files and simple graphics are introduced and applied. BASIC language is used.

Prerequisites: 1192, 7030. Lab fee charged.

1134 Macrofortran/Microcmptrs

3-2-3

Techniques to implement large scientific and engineering programs in FORTRAN on the microcomputer, fooling the microcomputer into processing like a mini/supermini computer using large FORTRAN programs. Interaction among the microcomputer, discs, and the mini/supermini computer. Special consideration will be given to system (program) design of the large program, use of overlays, virtual arrays, memory utilization, I/ 0 techniques, user friendly programming, etc.

Prerequisites: FORTRAN. Lab fee charged.

1135 "C" Programming Language

2-2-3

"C" is a very portable programming language used for systems and communications programs. Its portability is making it increasingly popular for applications programs. This course will cover structured programming concepts, input/output operations, arrays and data structures, functions, pointers and the "C" library. Students should have some programming experience. This "C" is 90 + percent compatible with UNIX or XENIX operating systems.

Prerequisites: BASIC or COBOL, etc. Lab fee charged.

1136 FORTH Programming

2-2-

FORTH is a flexible, powerful and different programming language used for systems, graphics, and machine control. Using FORTH is also a good way to learn about how compilers and interpreters work and how a computer handles data. This course is an overview of FORTH, covering simple arithmetic through extending the compiler. It is both an introduction to FORTH and a look at the inner workings of languages in general. Prerequisites: None. Lab fee charged.

1137 PASCAL Programming

2-2-3

Since its introduction in the early 70's, PASCAL has gained popularity in both scientific and business applications due to its combination of "structured" control facilities, powerful data structures, and simplicity of expression. PASCAL can serve as an introduction to advanced programming techniques. This course is intended for students who have already had an introductory course in high level language programming.

Prerequisites: Any high level language such as BASIC, COBOL, etc. Lab

fee charged.

1138 Introduction to Computer Graphics and Modeling 2-2

The hardware, software, and data structure considerations for utilizing ready made graphics packages; the mathematical and programming techniques for displaying and manipulating graphical objects; the fundamentals and limitations of mathematics and computer algorithms for development of modeling and graphics programs.

Prerequisites: BASIC or FORTRAN. Lab fee charged.

1139 Introduction to XENIX/UNIX

2-2-3

XENIX is Microsoft's adaptation of the UNIX operating system for micro-computers. Highly regarded for its power and portability, UNIX systems have been implemented in micro-, mini-, and mainframe environments. This course introduces the tree-type file system, basic I/O, system commands, and shell programming. Familiarity with these techniques is ensured through laboratory exercises.

Prerequisites: Some programming experience. Lab fee charged.

1140 Introduction to Linear Algebra

4-0-4

Review of the basic laws of algebra. Polynomials, quadratics, exponents and roots. Linear equations and inequalities. Sets and set operations. Linear and polynomial functions. Students should register for this course after taking the math placement test.

Prerequisites: 0024 or equivalent. No lab fee charged.

1141 Matrix Algebra

4-0-4

Selected topics from business and banking applicable to matrix modeling. Matrix operations. Systems of linear functions. Systems of linear functions. Systems of linear inequalities. Linear programming techniques. Prerequisites: 1140 or equivalent. No lab fee charged.

1142 Probability and Introduction to Quantitative Analysis 4-0-4
Definition of Qualitative analysis, its development and typical applications. Probability; basic concepts, classical, conditional, Bayes Theorem,
expectations, binomial distribution. Normal distribution, definition of
quantitative analysis, introduction to decision making. Forecasting, data
analysis.

Prerequisites: 1140 or equivalent. No lab fee charged.

1143 Quantitative Approach to Operations Research 4-0-4

Decision Theory, Model Construction: network, transportation, simplex and other programming, dynamic programming, queuing, Markov analysis, past, present, future methods.

Prerequisites: 1141 and 1142 or equivalent. No lab fee charged.

1150 Introduction to Science Mathematics

4-0-4

Fundamental skills of mathematics as applied to the Health profession: interpretation of data and calculations, decimals, fractions, ratios and proportions, percents; measurement calculations and conversions: English, metric, S.I., Apothecary, household, temperature, medical dosages, concentrations, etc. Offered as either independent study or traditional lecture.

Prerequisites: Math Placement Test. No lab fee charged.

1151 Pre-Calculus Math: Algebra

4-0-4

Properties of real numbers and algebraic expressions, algebraic operations, functions, simultaneous equations, determinants, exponents and roots, inequalities.

Prerequisites: High school algebra. No lab fee charged.

1152 Pre-Calculus Math: Trigonometry

4-0-4

Basic geometric concepts, trigonometric functions, radians and circular functions, angles in various quadrants, right and oblique triangles, trig. identities and equations, inverse trig. functions, polar coordinates.

Prerequisites: 1131 or 1151. No lab fee charged.

1153 Elementary Analysis

4-0-4

Review of coordinate systems, exponents, fractional expressions, linear and quadratic equations and inequalities. Functions and their graphs, variation, rational functions, exponential and logarithmic functions, conic sections.

Prerequisites: Two years of high school math. No lab fee charged.

1154 Calculus I

4-0-4

Functions and functional notation, limits and continuity. Tangents, slope and the derivative. Basic derivative operations. Maximum and minimum values and inflection points. Related rates. The antiderivative, indefinite and definite integrals, area under a curve.

Prerequisites: 1153. No lab fee charged.

1155 Calculus II

4-0-4

Review. Derivatives of implicit functions. Area between curves. Derivatives and integrals of trigonometric, logarithmic and exponetial functions. Integration by parts, by separation of variables, by trigonometric substitution. Partial derivatives. Multiple integration.

1170 Introduction to Technical Mathematics

Calculations using signed numbers, decimals, roots, powers, scientific notation, empirical data, dimensional unit conversions, proportions, formulas. Manipulation of formulas and equations. Reading and using various measuring devices. Deciphering angular and parallel relationships. Using geometric and trigonometric relationships. Applications using the tools of many engineering technologies: diagrams, formulas, graphs, meters, micrometers, calipers, etc. Students should expect to purchase a scientific calculator for the second half of the course. Offered as either independent study or traditional lecture.

Prerequisites: 0020, 0024 or equivalent. No lab fee charged.

1171 Technical Mathematics I

4-0-4

Order of calculation, scientific notation, rounding off, measurement conversions, formula and equation manipulation, ratio and proportion, direct and inverse variation, area and volume calculation, simultaneous equations, similar triangles and right triangle trigonometry. Applications on the Ohm's Law, pulley and gear speed ratios, horsepower, torque, tapers, components of forces, etc. Students in this sequence should expect to use a scientific calculator.

Prerequisites: 1170 or equivalent. No lab fee charged.

1172 Technical Mathematics II

Logarithmic and exponential functions, Law of Sines, Law of Cosines, complex number operations, the quadratic equation, force and phasor systems, applications include concepts from 1171, Kirchoff's Laws, mechanical systems in equilibrium, density, specific gravity, area and volume viewed as functions of dimensions, radian-degree conversions, interpolation of tabular data, etc.

Prerequisites: 1171. No lab fee chargel.

1173 Technical Mathematics III

Introduction to Analytic Geometry, manipulation and graphical analysis of trigonometric, logarithmic, quadratic, power functions, etc Three dimensional functions and figures, Statistics, Introduction to Boolean Algebra (optional). Applications using Gas Laws, power ratio/decibel conversions, A.C./D.C. circuit analysis, empirical data analysis. Prerequisites: 1171, 1172. No lab fee charged.

1179 Introduction to Applied Statistics

Descriptive and inferential statistics--application oriented. Organization of data including mean, median, standard deviation, Z scores, etc.including graphical displays. Probability and probability distributions (binomial, normal, etc.) Testing hypotheses concerning means and proportions. Linear regression ("forecasting") and correlation. Sampling techniques including determination of sample size. Prerequisites: College Algebra. No lab fee charged.

1180 Applied Statistical Analysis

A continuation of the applied statistical topics presented in course 1179. Testing statistical hypotheses concerning two or more samples, analysis of variance (ANOVA), experimental design, multiple regression, reliability, and nonparametric statistics, etc. A final project consists of a complete statistical study from design to collection of data to analysis to typewritten report with graphics. A scientific calculator with STAT capabilities is required.

Prerequisites: 1179. No lab fee charged.

1191 Algebra and Trigonometry I 4-0-4

Order of calculations, meaning of equations, trigonometric ratios, oblique triangle trig, geometric design, equation manipulation, exponents and roots, simultaneous linear equations, introduction to Boolean Algebra. Some applications using series and parallel circuits, forces on mechanical systems. Students enrolled in this course should expect to utilize an electronic calculator having Scientific Notation, Trig and Log functions.

Prerequisites: 1170 or equivalent. No lab fee charged.

1192 Algebra and Trigonometry II

Common logarithms and natural logarithms, exponential equations, Trigonometric graphs, identities and equations, direct and inverse variation, quadratics, complex numbers. Applications to power conversions, radian-degree conversions, pulley and gear speed-ratios, vibrations, resolutions of logic networks. Students enrolled in this course should expect to utilize an electronic calculator having Scientific Notation, Trig and Log

Prerequisites: 1191. No lab fee charged.

1193 Analytic Geometry & Calculus I

Topics from analytic geometry involving conic sections, etc. Graphs of some first and second degree functions, derivative concept, applications of derivatives including related rates, maximum and minimum points. Indefinite and definite integrals with applications including areas and volumes. Students enrolled in this course should expect to utilize an electronic calculator having Scientific Notation, Trig. and Log functions. Prerequisites: 1192. No lab fee charged.

1194 Analytic Geometry & Calculus II

A continuation of Analytic Geometry and Calculus I. Derivatives and integrals of transcendental functions. Integration using Integral Tables. Double integration. Partial derivatives with applications including Least Squares Curve Fitting. Integration using the computer. Students enrolled in this course would find a pocket computer helpful. The student should expect to utilize an electronic calculator having Scientific Notation, Trig. and Log. functions.

Prerequisites: 1193. No lab fee charged.

1195 Analytic Geometry & Calculus III

A continuation of Analytic Geometry and Calculus II. Maclaurin Series Expansions and Taylor, Fourier Series; Ist Order Differential Equations, Linear Differential Equations and Applications; 2nd Order Differential Equations; Repeated Roots and Nonhomogeneous Equations; Numerical Methods; Laplace Transforms.

Prerequisites: 1194. No lab fee charged.

1199 Special Studies-Mathematics Var-Var-Var

A personal academic pursuit related to the student's technical field of study mutually agreed upon by the student and supervising faculty member. Prior to registration, the plan of study must be approved by the Dean of the Physical Sciences/Mathematics Technologies. (Grades S or U.) Prerequisites: None. No lab fee charged.

1201 Private Police Officer Training Course 4-8-8

This complete 120-hour training course fulfills the requirements for certification for Peace Officers Training Council for Private Security Police. Prerequisites: None. Lab fee charged.

First-aid instruction including Red Cross Multi-Media Standard First Aid course, including instructor's certification; CPR instruction, including instructor's certification.

Prerequisites: None. Lab fee charged.

1203 Security Investigation

3-0-3

Investigations will provide the security officer the methods for gathering information from public records and private individuals. Legal aspects, investigative strategies and report writing will be covered. Prerequisite: None.

1204 Personnel Security Systems

All areas to be secured require organization of system, manpower and equipment. This course describes types of physical equipment needed to provide security in three lines of defense. Prerequisites: None. Lab fee charged.

1205 Criminal Interrogation

3-0-3

This course is an in-depth study of proper interrogation procedures designed to gather information from persons. Prerequisites: None. No lab fee charged.

1208 Criminal Law I

3-0-3

Criminal procedure deals with the scope of all criminal rules and their applicability as established by the state of Ohio. Procedures and options of criminal justice.

Prerequisites: None. No lab fee charged.

1209 Criminal Law II

3-0-3

This covers all areas dealing with Ohio codes and statutes (H.B.511). Prerequisites: None. No lab fee charged.

Introduction to Loss Control & **Security Administration**

3-0-3

An overview of the significance of security and loss prevention programs in areas of industrial business and government complexes. Review of examples of effective loss control programs in existence; a study of career opportunities in the field, personnel requirements, standards, and current remuneration levels.

Prerequisites: None. No lab fee charged.

1211 Industrial Security

A study of every area of industrial security...to recognize and prevent threats to key industry from violence, sabotage, and espionage. Prerequisites: None. No lab fee charged.

1213 Hospital Security

Develop a concept of security in the health care environment and provide sufficient operational details to make possible the establishment of a protection system or the refinement of existing systems. Prerequisites: None. No lab fee charged.

1216 Security Administration I

A study of security problems: Loss prevention to increase a business profit; areas covered include shoplifting, robbery, burglary, forgery and identification, apprehension and prosecution of people.

Prerequisites: None. No lab fee charged.

1217 Security Administration II

An analysis of special internal problem areas, particularly employee theft.

Prerequisites: None. No lab fee charged.

1218 Executive Protection

3-0-3

This course will provide participants with an understanding of terrorism and the threat it poses to business people, government representatives and other professionals and the companies they represent. It explains modern terrorism, the general characterisitcs of terrorist organizations and their members, their motivation, strategy tactics and modus operandi and activities of specific groups that target business interest. Particular attention is paid to the lessons learned from past terrorist operations, so that personal, family and corporate security is improved. Prerequisites: None. No lab fee charged.

1220 Fundamentals of Fire Protection

This course deals primarily with fires, fire fighting equipment, and how to properly use or apply this equipment...setting up fire brigades, train, and

Prerequisites: None. Lab fee charged.

1224 Fundamentals of Fire Prevention

3-0-3

Organization and function of the fire prevention organization; chemistry of fire; inspections, surveying and mapping procedures, recognition of fire hazards, engineering a solution of the hazards, enforcement of the solution. Public relations as affected by fire prevention efforts. Prerequisites: 1220. Lab fee charged.

1230 Safety Management

3-0-3

Organization of safety and accident prevention programs. Study of leading causes of business and industrial accidents. The principles of cause analysis and scientific accident prevention. Prerequisites: None. No lab fee charged.

1233 Emergency Planning

Principles governing the development of emergency plans. Problems encountered in planning for emergencies and implementing such plans. Procedures for plan development. Procedures for plan implementation. Emergencies to be covered include: bomb threat, fire, explosion, storm, riot, strike violence.

Prerequisites: None. No lab fee charged.

1234 0.S.H.A. I (Occupational Safety & Health Act) 3-0-3

To familiarize the student with the functions, terminology, and procedures of the Occupational Safety and Health Act. Prerequisites: None. No lab fee charged.

1235 0.S.H.A. II (Occupational Safety & Health Act)

A study of the Federal Register.

Prerequisites: None. No lab fee charged.

1236 Vehicle Safety A study and analysis of the problems and practices of motorfleet and industrial vehicle safety programming and hazardous situations, such as tow motors, trucks, and forklifts.

Prerequisites: None. No lab fee charged.

1237 Safety Training Methods and Techniques

2-3-3

To equip the student with proper techniques for teaching employees, supervisors or upper-level management who are concerned with the development of in-depth training programs. To equip the student with communication skills and the management functions of safety. Prerequisites: None. No lab fee charged.

1238 Ergonomics

The scientific approach to problems of design and construction of machines vs. man's human factors engineering. The stress of machines on the human body.

Prerequisites: None. No lab fee charged.

1240 Directed Case Study

3-0-3

An analysis of criminal court decisions; these decisions must be reduced to a written brief by student.

Prerequisites: 1208, 1209. No lab fee charged.

1401 Layout and Design

Principles of printing design and art work. Conventional layout, modern layout, type design, color usage, scaling photographs and art work, copy preparation for camera, newspaper layouts, designing folders, broadsides and booklets.

Prerequisites: None. Lab fee charged.

1402 Typography

History of the alphabet; evolution and development of movable type. Methods of typesetting - hand and machine composition. Copyfitting of text matter to space allocation. Basic requirements of hot metal, punched tape for cold composition (photographic and strikeon composition), hot metal and cold type display for composition. Prerequisites: None. Lab fee charged.

1403 Advertising Typography

An extended study of display advertising utilizing computer equipment and some hot metal typesetting. Analysis, evaluation, and recommendations based on individual usage of type styles and sizes presented for good design and makeup.

Prerequisite: None. Lab fee charged.

1405 Proofreading and Copy Preparation

2-0-2

Checking the typesetter's work; use of special symbols to mark changes, corrections, additions, or eliminations. How to check copy for errors. Duties of the proofreader and the copyholder. Reference books for the proofreader. Rules of syllabication of words. Acquiring speed and accuracy in proofreading.

Prerequisites: None. No lab fee charged.

1410 Machine Composition and Newspaper Designing

An extended study of various typesetting machines, both magnetic tape controlled and punched tape controlled, utilizing hot metal machines. Analysis, evaluation and recommendations based on individual research in order to select the best method for a particular kind of work. The basic operations of manually operated machines are also investigated. Fundamentals and techniques of sound newspaper designing are presented through general problems of page size, news head selection, from page make-up, illustration, etc.

Prerequisites: 1402. Lab fee charged.

1415 Graphic Arts Processes

Development and evaluation of printing devices. Graphic art processes in use today: letterpress, gravure, flexographic, offset and screen printing. How they work, and the kind of work for which they were designed. Hands on training of offset duplicator and electrostatic plates will be covered in laboratory.

Prerequisites: None. Lab fee charged.

1419 Survey of Printing Inks

3-0-3

This course is about ink technology as it is divided into physical makeup; how its integral parts affect color, drying properties, subtrates, cost, time; how the many printing processes use inks to each advantage. Prerequisites: None. No lab fee charged.

1421 Cold Type Process

Classification of cold type devices - hand assembled paper or plastic alphabets, dry transfer fonts; keyboard text - on paper machines; keyboarded phototypesetting; photo-lettered displays. Principles and operation of various keyboards. The use of electronics, computers, and tape operated controls.

Prerequisites: 1402. Lab fee charged.

1428 Management Survey

Use of the production board in control-planning a job and following through all phases of production. Methods of hiring and firing. Prerequisites: None. No lab fee charged.

1429 Screen Printing

The use and operation of manual and semi-automatic screen printing presses. Basic fundamentals of printing frames, screen cloths, stencils, squeegees and inks. Printing on many substrates and odd shaped objects Prerequisites: 1421. Lab fee charged.

1430 Relief Presswork I

The use and operation of platen and cylinder letterpress equipment. The use of such equipment for diecutting, foil stamping and embossing. Basic fundamentals of flexographic printing. Prerequisites: 1403, 1480. Lab fee charged.

1431 Relief Presswork II

Advance techniques in the operation of multi-color narrow web flexo press. Strong emphasis in process printing. Comparison of narrow web, wide web and corrugated flexo presses. Advanced training on mounting, platemaking, and finishing operations. Prerequisites: None. Lab fee charged.

1440 Offset Press Operation

Techniques of operation and control, study of various moistening systems, comparison of wet and dry forms of lithography. Plate comparisons to include wipe on, presensitized, albumin surface, deep etch, bi-metal, trimetal, dycril and other synthetics, grained and grainless. Understanding the required adjustments necessary for top quality printing. Use of pressroom and quality control equipment.

Prerequisites: None. Lab fee charged.

1449 Estimating Preparation

This course is designed to cover those areas in the printing industry that require the attention of math, ie, paper, copyfitting, weight of metal, ink, spoilage, and camera calibrations.

Prerequisites: None. No lab fee charged.

1450 Estimating

Determine job costs; elements of job costs - labor, materials, burden, profit and markup. Characteristics and types of paper; paper sizes, selection and purchase of paper; determining proper cuts from mill size sheets; use of manufacturers' catalogues and price books.

Prerequisites: 1449. No lab fee charged.

1460 Bindery Method/Procedures

2-3-3

Drilling, stitching and cutting. Investigations into the more complex operations of page imposition. Automatic signature assembly and book finishing. Automatic tape operated cutters demonstrated and explained. Automatic folders with pile feed and continuous feed. Prerequisites: None. Lab fee charged.

1480 Photolithography I

Types and uses of photo-copy and process camera. General and special uses of films. Uses of precise measuring darkroom instruments. Darkroom techniques. Making line and half-tone negatives. Comparing and making single color proofs. Simple stripping. Prerequisites: None. Lab fee charged.

1481 Photolithography II

Follow-up of Photolithography I using advanced techniques. Making color separations and color proofs. Stripping techniques related to multicolor jobs.

Prerequisites: 1480 or 1482. Lab fee charged.

1482 Flexo Photography

2-3-3

Introduction to types of camera copy and styles of process cameras. General and special use of films. Uses of precise measuring darkroom instruments. Learn how to calculate distortion factors for negatives to produce flexo plates. Darkroom techniques. Making line and halftone negatives. Produce single and multi-color proofs.

Prerequisites: None. Lab fee charged.

1502 Human Relations - Applied Psychology 3-0-3

Applies psychological principles to everyday life. These applications help students understand themselves better, change their behaviors, and enhance their relationships. The students must participate in structured experiences.

Prerequisites: None. No lab fee charged.

1505 Introduction to Psychology: Internal World

3-0-3

This course presents psychology as the science of understanding behavior. Topics covered are: methods of psychological research, the biological bases of behavior, perception, learning, memory and language; motivation, and emotions.

Prerequisites: None. No lab fee charged.

1506 Introduction to Psychology: External World

This course discusses the development and growth of people; the personality, the maladjusted patterns of behavior; psychotherapy; social psychology; and applied psychology in terms of business, industry, education, and consumerism.

Prerequisites: None. No lab fee charged.

1507 The Psychology of Color

The meaning of color is studied as it relates to its perceptual impact on people. Colors will be analyzed for their subliminal message and significance. The physics of light and the chemistry of inks will be contrasted and discussed. Cultural differences and the symbolism of color will also be presented. Even a color test will be used to analyze the psychosocial conflicts in students' lives. People who must select and/or use colors for sales marketing or graphic designing may be interested in this course. Prerequisites: 1505 or 1506 recommended. No lab fee charged.

1508 Child Psychology

The child's life begins with genetic and environmental influences. The student considers the physical, intellectual, language, social, moral, and abnormal growth of the child. Theories help to explain this growth to ado-

Prerequisites: 1506 recommended. No lab fee charged.

1509 Psychology of Human Development-**Adolescence Through Aging**

The general principles and theories governing human growth and development from adolescence through aging are studied as they relate to the physical, cognitive, and psychosocial development of people. The major contemporary theories are presented, discussed and compared. Major topics include the identity struggle of adolescence, career selection and development, marriage, parenting, mid-life crises, retirement and death

Prerequisites: None. No lab fee charged.

1512 Microeconomics

3-0-3

3-0-3

This course will introduce the fundamental economic problem of scarcity and provide a brief overview of the macro-system. The primary focus will be on demand and supply analysis within individual markets, price determination, analysis of cost, forecasting, and economic decision making in

Prerequisites: None. No lab fee charged.

1513 Macroeconomics

This course introduces the basic economic problems of scarcity and provides an overview of the micro-system. The primary focus of the course is on an analysis of price level, inflation and unemployment, the role of government in monetary and fiscal policy, and analysis of aggregate income, consumption, savings and investment.

Prerequisites: None. No lab fee charged.

1521 Introduction to Sociology

A look at sociology as a science occupied with classifying and defining group behavior. Emphasis is placed on the basic institutions necessary to the processes of socialization and acculturation. Prerequisites: None. No lab fee charged.

1523 Sociology: Major Institutions 1000 1000 1000 1000 1000 3-0-3

The detailed study of the five major social institutions in society; the family, religion, education, the economy and government. Prerequisites: 1521. No lab fee charged.

1524 Stress Management

3-0-3

Theory and applied coping techniques for effective management of typical on-the-job crises for managers. This course encompasses communication principles and techniques, control of stressful situations, developing coping techniques and role playing of pertinent management situations. Prerequisites: None. No lab fee charged.

1525 Changing Roles for Men and Women

3-0-3

An interdisciplinary look at the processes through which sex roles develop, the ways in which they impact upon individuals and society, and an analysis of the changing sex role patterns in the U.S. and elsewhere. Prerequisites: Three (3) hours of psychology or sociology. No lab fee

1527 Technology and Ethical Decisions

The technician and issues having ethical or moral implications to technology. Students will use acceptable ethical principles and apply them to their own technology. Research into current publications will assist students in understanding how ethics is applied in practical situations. Discussion of ethical principles and procedures is an integral part of the course. Practical decisions with emphasis on technology will be stressed. Prerequisites: None. No lab fee charged.

1531 Introduction to Political Science 3-0-3

A survey of the nature of political science; its various branches; methods of analysis used; basic characteristics and problems of government and politics; the theories and practices which describe and explain man's behavior in the national and international community. Prerequisites: None. No lab fee charged.

1535 Introduction to Labor/Management Relations 3-0-3

A general overview of the historical, legal and current status of Labor Management relations, in union and nonunion environments, and in both the private and public sectors. Include Labor Economics, Labor Law, Labor Movements and concept of Relative Bargaining Power. Prerequisites: None. No lab fee charged.

1536 Practical Government: Dealing with **Regulatory Agencies**

Introduces students to the practical workings of typical government agencies that average citizens must deal with during their lives. Agencies to be covered include U.S. Department of Labor, Equal Employment Opportunity Commission, Social Security, and the Veterans' Administration. Prerequisites: None. No lab fee charged.

1539 Public Policy and the American Worker

Covers three major areas of concern to the worker - Collective Bargaining Rights, Employment Rights and Workplace Protection - from the viewpoint of management and labor. Topics include EEO, Workers Compensation, OSHA, Bargaining, Hiring and Firing Laws, etc. Prerequisites: None. No lab fee charged.

1541 Role of the Army Officer

Introduces the student to the ROTC Program and gives the student a better understanding of the role of the military structure. Benefits and requirements of the ROTC Program are discussed. Prerequisites: None. No lab fee charged.

1542 Introduction to Leadership

Study and application of basic principles and techniques of counselling, communication skills and human relations skills.

Prerequisites: None. No lab fee charged.

1543 Fundamentals of Leadership

Introduces the student to a better understanding of organizational leadership. Improves the student's understanding of sociological and psychological influences on human behavior. It discusses human needs, motivation, and the nature of groups and members of the groups. Emphasis is placed on application in the military. Prerequisites: None. No lab fee charged.

1546 Leadership in Small Unit I

This course emphasizes the functional approach to the study of leaderhsip. The course is composed of lecture and discussion. The course also contains an introduction to the basic organization of Army units, Company, Platoon and Squad. This knowledge will assist the students in further studies and also enable them to understand the organizational structure of the Army at small unit level.

Prerequisites: 1541, 1542, 1543. No lab fee charged.

1547 Leadership in Small Unit II

Provide the student with information on leadership topics through lecture, conference and analytical discussions of prerecorded TV tapes. Also during this course, students will review and expand upon basic map reading knowledge.

Prerequisites: 1541, 1542, 1543. No lab fee charged.

1548 Today's Army

3-0-3

This course is designed to give the student an overview of today's Army and show the trends in improving the quality of the soldier's life. It explains the mission, organization, and deployment of the regular and reserve Army forces. Each student will have the opportunity to familiarize himself with Army career fields, customs and traditions of military service, service benefits, and the Army Officer as a professional.

Prerequisites: 1541, 1542, 1543. No lab fee charged.

1599 Special Problems in Social Science 1/5-0-1/5

Individual study and special projects pertaining to the particular technology that the student is enrolled in. Open to students wishing advanced standing, independent study, and/or research. This course is arranged with the instructor with the approval of the Dean of the Division. Prerequisites: None. No lab fee charged.

1701 Introduction to Data Processing

This course is designed to provide first-term students with an overview of the entire field of data processing. Terminology and concepts for hardware and software are introduced. Future trends are discussed. Prerequisites: None. No lab fee charged.

1702 Introduction to BASIC Programming

This course is designed to provide first-term students with an introduction to the BASIC language and programming techniques.

Prerequisites: High school typing or 3001. Corequisites: 1701, 1721. Lab fee charged.

1711 Introduction to Computer Operations

Instruction is in the operational function of the key-operated equipment and introduction to computer operations. Laboratory work will reinforce these principles.

Prerequisites: High school typing or 3001. Lab fee charged.

2-3-3 1712 Data Entry Systems

This course is designed to give students a basic understanding of data entry with the knowledge and skills to effectively practice with a database management tool in a data management environment. Prerequisites: High school typing or 3001. Lab fee charged.

1721 Programming Logic & Methods

The course is designed to give the student initial exposure to programming logic methods and programming documentation. Emphasis is on structured approach to programming and the BASIC language is used to reinforce the concepts covered in the course. Typical business applications are assigned as problems. Prerequisites: "C" or better in 1701. Lab fee charged.

1739 Operating Systems

1732 Microcomputer Systems

1722 Advanced BASIC Programming

1723 Assembler Language I

Prerequisites: 1721. Lab fee charged.

1731 Peripheral-Equipment Operations

table manipulation.

Program linkage and operating systems are introduced.

3-0-3

The standard functions of supervisory routines, including introduction to: run control, I/O control, multi-programming and service routines, are discussed and explained. Job control languages are introduced with exer-

The full range of BASIC language instructions and coding techniques are

introduced with programs written using DASD, screen formatting, and table processing. All programs are tested and thoroughly documented.

The first course in assembler coding techniques utilizing micro-computer assembler instructions. Program problems are assigned to utilize I/O

processing, direct and indirect addressing, and peripheral equipment and

Instruction is given in the operating procedures of both on-line and off-

line equipment. Laboratory work will reinforce the above instruction by

This course is meant to fulfill the need for students majoring in the area of data processing. It will make the student aware of the potential of the

microcomputer with much hands-on experience with actual microcom-

providing exposure to normal operator maintenance functions.

Prerequisites: "C" or better in 1701 and 1711. Lab fee charged.

Prerequisites: "C" or better in 1701 or 1850. Lab fee charged.

Prerequisites: "C" or better in 1701, 1721 and 1702. Lab fee charged.

Prerequisites: "C" or better in one programming class and 1701. Lab fee 1740 Operating Systems I Manual Independent of the quarter

Designed for those students who have elected the Data Management program. Greater emphasis is placed on the functions of an operating system in this program. The student is required to demonstrate advanced techniques in operating a computer under Operating Systems. Prerequisites: "C" or better in 1731. Lab fee charged.

1741 Operating Systems II

Advanced operations concepts, cataloged procedures; generation of test files--OS, MFT, MVT, VSAM; concepts of real-time operating systems and time sharing.

Prerequisites: "C" or better in 1740. Lab fee charged.

1742 COBOL Programming I Shalland American 3-7-6

COBOL programming with emphasis on American National Standard compatibility. The student will write several programs ranging from basic to complex using punched card, magnetic tape, and sequential disc files. Prerequisites: "C" or better in 1701 and 1721. Lab fee charged.

1752 Real Time Systems & Data Communications

The Systems Analysis student will enter into man-machine interactions through a teleprocessing based on data processing system. Topics will include tele-communications hardware and the appropriate (related) programming languages. Emphasis will be placed on the current timesharing language(s). Also stressed will be problem-solving techniques requiring the use of remote terminals, inquiry-response techniques, and time-shar-

Prerequisites: "C" or better in 1762. Lab fee charged.

1754 Data Communications I

3-2-3

The course is designed to give the student an understanding of the scope of business data communications. It will also explain basic terminology and concepts that apply to the operation and design data communications systems and to provide a logical approach to recognizing communication problems.

Prerequisites: 15 credit hours of CISP courses. Lab fee charged.

1761 Introduction to RPG II

3-7-6

Beginning level course for the programming major student. Topics covered include processing of sequential files and generating typical business

Prerequisites: "C" or better in 1701 and 1721. Lab fee charged.

1762 COBOL Programming II

Advanced COBOL techniques using randomly processed disc files. The student is taught to access indexed-sequential and direct-access files using keys and algorithms. Prerequisites: "C" or better in 1742. Lab fee charged.

1763 Systems Analysis & Design

A complete methodology of analyzing and designing computer oriented

information processing systems is presented. Instruction and exercises cover data collecting, data structure, file structure and design, input editing and volume consideration, processing requirements, output formats, real time and time sharing systems.

Prerequisites: 15 credit hours of 1700 courses, including 1701 and 1721. Lab fee charged.

1764 Data Communications II

The course is designed to follow 1754 Data Communications I. The student will understand how communication protocols operate and how Local Area Networks and office automation are designed and installed. These concepts will be reinforced by practical laboratory problems. Prerequisites: 7702, 1754. Lab fee charged.

1771 Data Base Management Systems

Manipulating data to extract required information through the use of external database managers. Topics include designing the database, creating it, and accessing it. Methods of access will include interactive manipulation, user-written procedures, and access through other lan-

Prerequisites: 15 credit hours in technical courses including 1701 and 1721. Lab fee charged.

1772 Programming Technical Mathematics

Terminology and basic concepts of automation. Introduction to Fortran programming and its application to the applied sciences. Laboratory experience in writing programs.

Prerequisites: None. Lab fee charged.

2-1-2

1773 Data Preparation & Control Instruction is given in the efficient coding and editing of source documents and use of desk controls applied to data processing documents. Input-output control functions are emphasized. Laboratory work will reinforce above instruction.

Prerequisites: 1711. No lab fee charged.

1781 Advanced RPG II

A business application oriented course for the business data processing student with emphasis on advanced programming techniques using RPG II. Topics include table handling, ISAM and file handling. Prerequisites: "C" or better in 1761. Lab fee charged.

1782 Installation Management

3-0-3

Instruction in basic management principles leads to detailed analysis of the data processing environment and effective methods of managing it. Prerequisites: None. No lab fee charged.

1783 Research Project

Independent research is conducted by each student. The only limitations applied are that the research must be directly related to data processing and must not concern itself directly with any other material covered by

Prerequisites: 15 credit hours of 1700 courses, including 1701 and 1721. No lab fee charged.

The course is designed to present the methodologies of data transmission and networks, highlighting software and data bases. The details of physical, electrical and procedural communication system interfaces will be discussed. Network planning and management guidelines will be used to accomplish laboratory projects.

Prerequisites: 1746, 1771. Corequisites: 1752. Lab fee charged.

1798 Survey of Data Processing

2-1-2

Terminology and basic concepts of data processing with emphasis on the application of the electronic computer system. Prerequisites: None. No lab fee charged.

1799 Survey of Data Processing

4-1-4

Introduction to the three principal data processing systems; manual, unit record, and electronic computer, with practical applications. Prerequisites: None. Lab fee charged.

1804 Risk & Insurance

3-0-3

The concept of risk in the business enterprise, the need for insurance protection against risks in area of property and liability, casualty, fire, life and health. Fundamentals of insurance contracts and selection of insurers. Prerequisites: None. No lab fee charged.

1810 Principles of Salesmanship

Analysis of the general principles and techniques of effective salesmanship. Principles and problems that include background information a salesman needs, and analysis of the selling process. Prerequisites: None. No lab fee charged.

1811 Introduction to Salesmanship

Provides broad preparation in the principles and practices of professional selling. Also helps to round out the education for those students whose major interest is in some other area of marketing. Prerequisites: None. No lab fee charged.

1812 Salesmanship II

Study of the selling process. A point by point observation of the steps of a sale and an introduction to industrial and wholesale selling. Prerequisites: None. No lab fee charged.

1813 Industrial Sales

Emphasis on salesmanship fundamentals as they apply to industrial selling. Discuss company, customer and product knowledge; the selling formulas and techniques and building of goodwill; confidence in self, product and company.

Prerequisites: None. No lab fee charged.

1814 Case Studies - Industrial Sales

3-0-3

A course concentrating on the analysis of cases involved in various selling situations. Cases will involve an analysis of sales marketing areas including consumer behavior, product strategy, distribution, promotional and pricing strategy.

Prerequisites: Completion of 1846, 1847, 1813, 1817 or by permission of coordinator. No lab fee charged.

1815 Audiovisual Sales Techniques

Planning and executing sales presentations using audiovisual media. Emphasis is placed on video camera/playback equipment and other equipment employing sight and sound.

Prerequisites: None. Lab fee charged.

1817 Industrial Purchasing

Analysis of buyer behavior in terms of the way a company views the market. Review techniques which influence institutional buyers, industrial buyers, the purchasing agent and consumers. Review difference in department buyer and purchasing agent.

Prerequisites: 1846, 1847, 1813. No lab fee charged.

1820 Sales Management

A study of the many and varied duties and responsibilities of the sales manager including selection of sales personnel, leadership, records, and reports, training, motivation, as well as the sales function in the structure of the company.

Prerequisites: None. No lab fee charged.

3-0-3

Treatment of fundamental principles of business law, including contracts, negotiable instruments, and agencies.
Prerequisites: None. No lab fee charged.

1824 Business Law II

A continuation of Business Law I with a treatment of government regulations, trust, and insurance.

Prerequisites: 1823. No lab fee charged.

1825 Hotel Law

A study of the fundamental principles of hotel law concerned with the various public callings. Covers the essential laws for making responsible decisions in the complex and diverse operations of modern hotels, motels and restaurants.

Prerequisites: None. No lab fee charged.

1826 Financial Law

2-0-2 Special Problem Seminar Var-Var-Var

This course covers the study of the Securities and Exchange Commission, regulations as they relate to the offering, and management of client invest-

Prerequisites: 1823. No lab fee charged.

1832 Personnel Management

8-0-8 Industrial Hygiene Recog

A broad overview of the traditional functions of a personnel office, such as job evaluation, recruitment, interviewing, training, employee and union relations, employee services, and of specific concepts concerning human relations and organizational behavior.

Prerequisites: 2926. No lab fee charged.

1836 Principles of Wholesaling

A comprehensive analysis of the wholesaling function and guidance in the treatment of practical difficulties that arise in the course of applying textbook principles to operational situations. Prerequisites: None. No lab fee charged.

1840 Retail Merchandising & Operations

4-0-4

Presents a meaningful and realistic body of information about the complex and dynamic field of merchandising and operations as it pertains to Prerequisites: Completion of 1845 or by permission of coordinator. No lab fee charged.

1842 Advertising & Display

3-2-4

Advertising media and their effects upon business. Practical applications of display theories as they relate to window and internal displays. Display and its relation to interior decorating and design. Prerequisites: None. Lab fee charged.

1845 Principles of Retailing

3-0-3

Introduces students to the field of retailing and provides the technical and theoretical knowledge necessary for retail midmanagement employment. Case studies are introduced to give the students practical operating experiences.

Prerequisites: None. No lab fee charged.

1846 Industrial Product Marketing I

3-0-3

Study of the nature and characteristics of industrial markets, procedures involved in industrial purchases and sales, psychology in industrial buying, distribution channels, and service policies and operating plans. Prerequisites: None. No lab fee charged.

1847 Industrial Product Marketing II

Techniques for pricing industrial products and services; product line planning; product policy, short-range and long-range planning; market research and development.

Prerequisites: Completion of 1846 or by permission of coordinator. No lab fee charged.

1850 Computerized Business Applications

A course in Data Processing theory with an emphasis on business applications. Laboratory work will include the operation of personal computers, execution of application software, and use of results to increase productivity.

Prerequisites: None. Lab fee charged.

1851 Auditing

3-0-3

Auditing techniques and procedures for manual and computer based accounting. Topics include review of internal control; preparation of audit programs, flowcharts and working papers; internal auditing. Prerequisites: 2913. No lab fee charged.

1852 EDP & Auditing

A study of methods of accounting control and the application of computerized audit techniques. The person taking this course is one of two types: (1) a practicing auditor or manager with a limited background in computers; or (2) a student usually of fourth or fifth term standing. Prerequisites: 1851. Lab fee charged.

1860 Management Software for Professionals

Microcomputer applications for small to large-scale businesses. Specific areas to be studied include dBase II, Lotus 1-2-3 and Multimate Word Processing as well as other special application packages.

Prerequisites: Basic knowledge of microcomputer operations. Lab fee

1861 Electronic Spreadsheets (Lotus 1-2-3)

2-2-3

Lotus Development Corps. 1-2-3 Application Software Package will be the primary topic discussed in this class. This software combines the benefits of an electronic spreadsheet, a graphics chart generator and a file manager in one integrated package.

Prerequisites: 1850 or 1860 or permission of instructor. Lab fee charged.

1999 Special Problem Seminar Var-Var-Var Var-Var-Var Individual study and special projects pertaining to the particular technology that the student is enrolled in. Open to fourth and fifth term students, by special arrangement with the coordinator and division dean. Prerequisites: None. No lab fee charged.

2000 Industrial Hygiene Recognition

Recognition of environmental factors and stresses which influence health. Prerequisites: None. No lab fee charged.

2010 Industrial Hygiene Measurements

Gas and vapor volume calculations and sampling, sampling for particulants, air flow measurements and quality standards, toxic concentrations. To include: area ventilation, heat stress, noise characteristics, electromagnetic energy measurements and illumination. Prerequisites: 2000. Lab fee charged.

2011 Industrial Hygiene Control

General methods of controlling environmental factors and stresses which influence health.

Prerequisites: None. No lab fee charged.

2199 Special Problems Seminar

Var-Var-2/4

Individual and independent study and special projects pertaining to the

particular technology in which the student is enrolled. Open to fourth and fifth term students, by special arrangement with the coordinator and division dean.

Prerequisites: None. No lab fee charged.

2200 Basic Chemistry

3-2-4

This is an introductory course that is designed to satisfy entrance requirements for related areas of study. The course stresses an integrated approach between lectures and laboratory experiments to form a sound basis for future study in more rigorous chemistry courses. Topics covered include properties, structure and chemical classification of matter; use of symbols; formulas and equations; chemical bonding; properties of bases, salts and solutions; naming of acids, bases and salts; radioactivity; and organic chemistry. (All students should be tested in advance of registration for basic math competency and if there is a need, suggested corequisite math courses are available.)

Corequisites: 1150 or 1170 (Competency test may be waived.) Lab fee

charged.

2209 Technical Chemistry Survey

3-2-4

Substances, pure and impure; chemical bonding; crystals; chemical reactions; acids and bases; oxidation and reduction; polymer formation. Prerequisites: None. Lab fee charged.

2221 Technical Physics I

Fundamental principles of heat and electricity treated with emphasis on heat, electronic theory, circuits and instruments with special application to everyday devices such as the motor vehicle. Students enrolled in this course should expect to spend at least two hours per week gaining actual hands-on laboratory experience.

Prerequisites: None. Lab fee charged.

2222 Technical Physics II

Fundamental principles of mechanics, treated with emphasis on the kinematics and dynamics of machines and fluids with special application to everyday devices such as the motor vehicle. Students enrolled in this course should expect to spend at least two hours per week gaining handson laboratory experience.

Prerequisites: None. Lab fee charged.

2223 Technical Physics III 22-3-3

Structure of matter; density; pressure; buoyancy; streamlining; temperature scales; expansion; molecular energy; airfoils; specific heal; change of state; heat combustion; energy conversion; heat engines; ideal gases; laws of thermodynamics; properties of waves; doppler effect; electromagnetic waves.

Prerequisites: 2221. Lab fee charged.

2231 Fundamentals of Inorganic Chemistry 3-2-4

A course in college level general chemistry; for those interested in the structure and properties of matter, changes in matter, chemical bonding, chemical reactions, equilibrium.

Prerequisites: high school chemistry or 2200. Lab fee charged.

2232 Fundamentals of Organic Chemistry

A course in college level organic chemistry as a foundation of biochemistry--carbon bonding; saturated, unsaturated aromatic hydrocarbons; alcohols; phenols; aldehydes; ketones; acids; amines. Prerequisites: 2231 or 2200. Lab fee charged.

2233 Fundamentals of Biochemistry

3-2-4

A course in college level biochemistry--carbohydrates, amino acids, proteins, lipids, vitamins, enzymes, metabolism body fluids.

Prerequisites: 2232 or equivalent. Lab fee charged.

2241 College Physics I

3-2-4

Measurement, units and conversions, linear measure, area and volume, velocity and acceleration, motion with a constant force, the gravitational field, projectile motion, energy and work, heat energy, temperature scales, specific heat, latent heat, heat transfer, radiation.

Prerequisites: High School Algebra or equivalent. Lab fee charged.

2242 College Physics II

Waves as carriers of energy, sound, light as a wave, index of refraction, fundamentals of optics, simple optical systems, diffraction, light as a photon, spectral analysis, the hydrogen atom, the photoelectric effect, the nucleus, mass defect and binding energy, fission and fusion, carbon 14 dating, types of decay, radiation units, and the biological effects of radia-

Prerequisites: 2241. Lab fee charged.

2244 Health Physics I

Selected topics as applied to the allied health profession. Pressure forces and addition of vector quantitites pertaining to biological systems; properties of waves, including frequency, wavelength, speed, amplitude, reflection, and refraction; optical instruments, including basic principles of geometric optics; atomic spectra and spectroscopic techniques; electromagentic radiation, including basic sources and detection schemes of IR, UV, visible, x-ray, and gamma radiation; fundamental nuclear particles and applications of nuclear techniques both as diagnostic and therapeutic tools; fundamentals of basic electricity, including current, resistance, simple DC circuits, potentiometer, transformer, and simple amplifier circuits; simple schematics, and basic components of various medical instruments.

Prerequisites: 1151. Lab fee charged.

2245 Health Physics II

5-2-3

Selected topics from those not covered in course number 2244. Prerequisites: 2244. Lab fee charged.

2261 Printing Science I (Chemistry)

Concepts of chemistry related to production procedures, converting raw materials to finished product in the graphic communication field. Students enrolled in this course should expect to spend at least two hours per week gaining actual hands-on laboratory experience. Prerequisites: None. Lab fee charged.

2262 Printing Science II (Physics)

2-3-3

Fundamental principles of mechanics, heat, color and electricity with special applications to the field of graphic communications. Students enrolled in this course should expect to spend at least two hours per week gaining actual hands-on laboratory experience. Prerequisites: None. Lab fee charged.

2263 Physical Science for Graphic Communications

This is a lab-oriented course concerning selected topics from chemistry and physics as they are applied to the graphic communications field. Prerequisites: 1170. Lab fee charged.

2270 Introduction to Physics

2-3-3

Fundamentals of physics; laboratory procedures; the controlled experiment; methods of measurement; techniques of data collection and analysis; interpretation of experimental results.

Prerequisites: 1170 or 1150. Lab fee charged.

Measurement techniques; functions and scaling; kinematics; velocity vectors; motion near the earth; laws of force and motion; work; energy; power; impulse; momentum; machines; conservation of energy and momentum.

Corequisites: 1172 or 1191. Lab fee charged.

2292 Physics II

Translational equilibrium; center of gravity; moments of forces; force analysis of structures; beams; trusses; booms; shear; elasticity; friction as a force; structure of matter; density; pressure; temperature scales; expansion; molecular energy; specific heat; change of state; heat of combustion; heat energy.

Prerequisites: 2291, 1191 or 1172. Lab fee charged.

Electromagnetic radiation with emphasis on the Wave Nature; Basic Wave properties; the Electromagnetic Spectrum with emphasis on the Visible Region, Refraction; Fundamentals of Geometric Optics, Simple Optical Instruments; Diffraction; Spectral Analysis and Color; Vision, and the Eye; the Inverse Square Law and the Nature of the Fundamental Forces.

Prerequisites: 2291, 1191 or 1172. Lab fee charged.

2294 Physics IV

Relativity, and the relativistic changes in space, time, and mass; Mechanics of the Electron and its relationship to the field of Electronics; Electron Energies, and their relationship to Electromagnetic Radiation; Planck's Radiation, the Hydrogen Atom; the Compton Effect, and other related Atomic Phenomena. The Nucleus and its Structure, Mass Defect, and Binding Energy; Radioactivity and Modes of Decay; Half-Life, and Carbon 14 Dating, Fission, Fusion, Reactors and Power Generation; The Biological Effects of Nuclear Radiation.

Prerequisites: 2291, 1192. Lab fee charged.

2299 Special Studies-Science

Var-Var-Var

A personal academic pursuit related to the student's technical field of study mutually agreed upon by the student and supervising faculty member. Prior to registration, the plan of study must be approved by the Dean of the Physical Science/Mathematics Technologies. (Grades S or U.) Prerequisites: None. No lab fee charged.

2501 Automotive Technology I

Principles of the internal combustion engine. Repair and rebuilding modern automotive engines, including valves, rings, bearings, cooling and lubrication systems. Emphasis on the proper use of hand tools and special equipment.

Prerequisites: None. Lab fee charged.

2502 Automotive Technology II

Principles of carburetion; cleaning, rebuilding and adjusting representative types of carburetors and other fuel components. Fundamentals of auto electrics; construction, operation and repair of the electrical system, including batteries, ignition, starting, generating and accessory circuits. Prerequisites: None. Lab fee charged.

2503 Automotive Technology III 2-8-5

Fundamentals and repair of the automobile chassis; includes suspension, braking system, steering and ventilation systems. Emphasis on the use of special equipment used to measure, repair and adjust these units. Prerequisites: None. Lab fee charged.

2504 Automotive Technology IV 2-8-5 A study of the design, construction, operation and servicing of automotive drive line components. These components include clutches, transmissions, rear axles and differentials. Prerequisites: None. Lab fee charged.

2505 Automotive Technology V 5-10-8

Automotive service and troubleshooting. Procedures and techniques for diagnosing and repairing electrical, engine and carburetion problems. The latest types of automotive testing equipment are studied together with standard repair procedures as practiced in the modern automotive shop. Work will be performed on live equipment. Prerequisites: None. Lab fee charged.

2506 Machine & Hand Tool Lab 3-2-3

Principles and processes which underlie the use of hand tools, cutting tools, portable equipment and accessories, measuring devices and gauges. Emphasis is placed on developing sound trade judgement, safe work habits and correct work procedures. Prerequisites: None. Lab fee charged.

2508 Techniques of Welding

Fundamental understanding and skill in the use of oxyacetylene. Arc welding and cutting equipment is developed. Such typical operations as butt, lap and fillet welds and the making of a bead are performed. Prerequisites: None. Lab fee charged.

2510 Automotive Management I 2-3-3

Organization, design, layout, administration and operation of an automobile dealership, trucking company or automotive leasing operation. Recruiting, hiring and retaining personnel. Prerequisites: None. No lab fee charged.

2511 Automotive Management II 2-3-3

A continuation of Automotive Management I. Engineering traffic flow, building parts and accessory sales, customer relations, measuring local parts and accessory market. Service selling and automotive warranties. Prerequisites: None. No lab fee charged.

2801 Food & Beverage Sanitation, Safety, Service 3-0-3

History, objectives, economics, scope and social importance of the industry. Emphasis on sanitation and safety techniques in the kitchen with lab experience. Students in the Chef Apprenticeship program may elect to take OJT in lieu of lab. take OJT in lieu of lab.

Prerequisites: None. No lab fee charged.

2802 Food & Beverage Cost Controls 3-0-3

An application of accounting theory to foodservice management. This course is offered to set up systems that can be implemented to control major costs in the foodservice industry.

Prerequisites: 2801, 2911. No lab fee charged.

2803 Menu Production & Purchasing

Examination & production of a full service menu to develop a food service purchasing system.

Prerequisites: 2801 2802. No lab fee charged.

2804 Catering Banquets Beverage Management 3-0-3

To give a comprehensive study of a hotel banquet and catering operation. This course also involves actual situations related to pricing and profit, beverage personnel job descriptions, beverage terms, merchandising, liquor laws, equipment, and profits.

Prerequisites: None. No Lab fee charged.

2805 Food & Beverage Supervision

Encountering the problems of human resources while learning the elements of leadership and supervision. Prerequisites: 1001, 1002, 1021, 2804. No lab fee charged.

2806 Beverage Management

Studies of actual situations, pricing and profit, beverage personnel job descriptions, terms, merchandising, liquor laws in relation to hospitality 3-01-7

2807 Basic Foods for Hotel/Restaurant

Through lab and lecture, you will gain knowledge of basic foods including sauces, soups, fish, meats, simple desserts, breads, vegetables, potatoes, starches, culinary terms, and menu preparation.

Prerequisites: None. Lab fee charged.

2808 Food and Beverage Lab I

A practical application of service and kitchen duties in a full service restaurant.

Prerequisites/Corequisites: 2801. Lab fee charged.

2809 Food and Beverage Lab II

0-4-1

A practical application of service and kitchen duties in a full service restaurant.

Prerequisites: 2801, 2808. Lab fee charged.

2811 Introduction to Hotel-Motel Management 3-0

A study of the various departments within the framework of private clubs, hotels, and motels, available vocational opportunities, and a look at the future.

Prerequisites: None. No lab fee charged.

2812 Hotel Front Office and Night Audit
Procedures

3-2-3

Study of front office management and operation with emphasis on the use of various front office equipment, supplies, and procedures. Practical operating procedures in performing the hotel night audit including registration, rates, hotel racks posting charges and credits.

Prerequisites: None. No lab fee charged.

2813 Hotel Executive Housekeeping

2.2.2

3-0-3

Studies in housekeeping and its administration, control of supplies, sanitation, cleaning techniques, decoration, equipment and related subjects. Prerequisites: None. No lab fee charged.

2814 Hotel Maintenance Management

A study of the basic terminology of energy, maintenance, and engineering. Explains, investigates, and provides basic decision-making models for energy, maintenance, and engineering situations.

Prerequisites: None. No lab fee charged.

2815 Principles and Practices of Hotel Management 3-0-3

A study of the nature of management: planning, organizing, controlling, standards and appraising, communications, motivations, and decision making in the hotel industry.

Prerequisites: None. No lab fee charged.

2821 Sales Techniques

3-0-3

2-4-3

Establishing a sales department and sales personnel for the hotel-motel-restaurant industry, their purposes and goals. An analysis of your prospects, competition, your company or organization and yourself. Prerequisites: None. No lab fee charged.

2822 Chef Basic Cookery I

Through lab and lecture, the student will gain a working knowledge of the following subjects: kitchen orientation, methods of cookery, soups, sauces, culinary terms with practical application in the lab. Salad preparation with interpretation of menus will also be covered. Prerequisites: None. Lab fee charged.

2823 Chef Basic Cookery II 2-4-3

Basic classical soups, salad making, basic meat, fish and poultry, basic baking, confectionery, menu planning.
Prerequisites: None. Lab fee charged.

2824 Chef Advanced Cookery I 2-4-3

Through lab and lecture, you will gain a working knowledge of the following: classical soups, sauces, classical meat, poultry, fish dishes, garne manger, buffet work.

Prerequisites: None. Lab fee charged.

2825 Pastry & Confectionery 4-8-6

Through lab and lecture, you will gain a working knowledge of the following: pastry and confectionery for the hotel and restaurant industry, dessert menu planning, correct orientation and familiarization with the patisserie environment, all basic pastry preparations and applying them to classical dessert making.

Prerequisites: 2822. Lab fee charged.

2826 Classical Cookery

Using previous knowledge, cooking advanced menus and planning and coordinating them, refining the skills of a chef and testing standard recipes, final cooking test of a seven-hour demonstration and theory test (three hours).

Prerequisites: 2825. Lab fee charged.

2827 Butchery & Fish Management

Through lab and lecture, the student will gain a working knowledge of the identification of grades of meats and fish, the wholesale purchase and distribution of any products, cutting of meats and fish, and the sanitary storage of them.

Prerequisites: None. Lab fee charged.

2901 Principles of Marketing I

3-0-3

Details the principles and functions of marketing. The essential concepts of competition, demand, and the structure of distribution. The roles of marketing management and the marketing executive are emphasized. Prerequisites: None. No lab fee charged.

2902 Principles of Marketing II

3-0-3

The analysis, interpretation, application, and forecasting of research findings in marketing management. The case study method is used in relating these techniques to actual marketing problems.

Prerequisites: 2901 or permission of coordinator. No lab fee charged.

2903 Survey of Marketing

3-0-3

An introductory course that covers the basic principles of marketing. This course is designed to provide a fundamental understanding of the economic and social forces which influence the marketing process.

Prerequisites: None. No lab fee charged.

2904 Office Management

3-0-3

Administrative management and organization of office departments; methods used in selection and training of office personnel, office planning and layout, cost controls, types and uses of office appliances, office forms, and an analysis of office procedures.

Prerequisites: 1832. No lab fee charged.

2905 Money & Banking

3-0-3

The processes of modern banking, including capital, deposits, loans, investments, and reserves. Credit expansion and contraction. The operation of the Federal Reserve Systems.

Prerequisites: None. No lab fee charged.

2906 Credit & Collections

3-0-3

Sources of credit information, understanding credit and alternatives to successful collections including procedures of small claims courts, bankruptcy and court settlements. Study of types of credit, analyzing credit and computation of the dollar cost of credit, aging accounts receivable, telephone collections, collection letters and personal contact collections, including repossession procedures.

Prerequisites: 2960. No lab fee.

2907 Introduction to Marketing

4-0-4

For students who take only a first course and for those who elect to major in the discipline. Teaches the fundamentals of marketing in an interesting, challenging, and rewarding way. Focuses on key concepts of marketing. Prerequisites: None. No lab fee charged.

2908 Case Studies in Marketing

4-1-4

Case studies of companies - some strategies that failed along with those that succeeded. Teaches students to make decisions based on facts given to achieve company goals.

Prerequisites: Completion of 2907 or by permission of coordinator. No lab fee charged.

2909 Office Accounting I

3-2-3

Principles and practices of basic accounting for the student who is required to complete only one term of accounting or needs 2910. Includes recording and accumulating financial events, preparation of statements, adjustments and cash and banking procedures. Limited to a study of service enterprises.

Prerequisites: None. No lab fee charged.

2910 Office Accounting II

3-2-3

A continuation of the concepts developed in 2909. Topics include account receivables, account payables, comprehensive practice set.

Prerequisites: 2909. No lab fee charged.

2911 Principles of Accounting I

3-2-3

Principles and practices of basic accounting, including journalizing, posting, adjusting accounts, preparing financial statements, cash and banking procedures, and a study of the uses of special journals with practical applications as they relate to each program.

Prerequisites: None. Lab fee charged.

2912 Principles of Accounting II

3-2-3

A continuation of Principles of Accounting I. The uses of subsidiary ledgers, classified financial statements, and payroll accounting and associated payroll tax returns are studied. Practical accounting problems as they

4-8-6

relate to everyday business are discussed as part of daily class routines. Prerequisites: 2911. Lab fee charged.

2913 Principles of Accounting III

3-2-3

The more advanced aspects of accounting principles are reviewed. Topics include: partnership, corporations, earnings per share, retained earnings, dividends, bonds and investments, working capital, financial position, and analysis of financial statements. Prerequisites: 2912. No lab fee charged.

2914 Cost Accounting I

Nature and purpose of cost accounting. Accounting and control procedures for materials, labor and manufacturing overhead. Cost effects of fixed and variable costs. Predetermining departmental overhead rates. Prerequisites: 2913. No lab fee charged.

2915 Cost Accounting II

3-0-3

Job order cost system and process cost system, standard cost accounting. Setting cost standards, variance analysis. Direct costing, accounting for scrap and spoilage. Managerial use of cost data. Prerequisites: 2914. No lab fee charged.

2917 Federal Taxation I

A study of Federal Income Tax as it relates to the individual taxpayer. The course deals in general terms with the most common aspects of taxes as they relate to the individual and business. Prerequisites: None. No lab fee charged.

2918 Federal Taxation II

3-0-3

A study of Federal Taxation dealing with advanced topics, partnerships

Prerequisites: 2917. No lab fee charged.

2919 Intermediate Accounting I

Preparation and analysis of accounting statements; special problems in accounting for current, plant, investment, and intangible assets, for liabilities and for corporate net worth; and funds and reserves. Prerequisites: None. No lab fee charged.

2920 Intermediate Accounting II

Advanced topics in accounting theory and practice dealing with corporations. Topics include retained earnings, earnings per share, accounting changes, changes in financial position and financial statement analysis. Prerequisites: 2919. No lab fee charged.

2921 Managerial Accounting

Determining cost and revenue relationships for management, managerial uses of quantitative techniques and financial statement analysis in managerial decision making.

Prerequisites: 2913. No lab fee charged.

2923 Marketing Concepts & Applications

Advanced marketing concepts and applications using both a traditional lecture approach and microcomputer applications in order to better understand the scope of the marketing environment. Prerequisites: 2901, 2902, 1850. No lab fee charged.

2925 Business Principles

A study of the nature of business, forms of business ownership, production problems and financing, forecasting, budgeting, governmental regulation of business, business personnel practices, the security markets and financial news.

Prerequisites: None. No lab fee charged.

2926 Principles of Management 3-0-3

Meaning, scope, and place of management functions; study of formal and informal organizational structures including line and staff relationships indicating authority and responsibility. Introduction to organization for management in government, business, institutions. Prerequisites: None. No lab fee charged.

2927 Security Management

The emerging role of security management in the modern organization. Organization of the internal structure of the security department and the roles and responsibilities of director, supervisors, and individual employees. Planning, budgeting, inspections, evaluation of countermeasures, investigations, office administration, and public relations. Prerequisites: 2926. No lab fee charged.

2928 Hotel-Restaurant Accounting

Capital expenditures for fixed assets of a hotel or motel, prepayments and deferrals of income and expenses, analysis of accounts receivables and uncollectibles, break-even analysis related to room occupancy, purpose of the night audit, and the uniform account classification prevailing in the hotel-motel industry.

Prerequisites: 2912. No lab fee charged.

2929 Audit Procedures and Operations

Practical operating procedures of the NCR 4200 in performing night audit. Operation of posting machines and peripheral office equipment. Prerequisites: None. No lab fee charged.

2930 Hotel-Restaurant Case Studies

A series of case studies in the hospitality industry involving daily management decisions. Studies include, but not limited to, financing, forecasting, budgeting, line and staff organization, and decision making. Prerequisites: 2815. No lab fee charged.

2931 On-Site Property Management I

3-1-3

Practical methods for successful management of property at the on-site level. This course encompasses management systems and philosophies, policies, property maintenance, merchandising, and renting, financial reporting, resident relations and legal concerns. Prerequisites: None. No lab fee charged.

2932 On-Site Property Management II

3-1-3

Continuation of course 2931, practical methods for successful management of property at the on-site level. This course encompasses management planning, personnel & resident polices, accounting & budgeting, legal aspects, insurance, marketing, leasing & sales, maintenance management and energy conservation. Prerequisites: 2931. No lab fee charged.

2933 Executive Level Property Management I
Techniques for successful reconstructions Techniques for successful management of property at the executive level. This course encompasses objectives of ownership, use of data and statistics, analysis of regions, neighborhoods and markets, cash flow projections & financial analysis, developing and managing apartments, offices, shopping centers, condominiums and cooperatives, and developing the management plan.

Prerequisites: None. No lab fee charged.

2934 Executive Level Property Management II

This course is a continuation of course 2933, techniques for successful management of property at the executive level. It encompasses the objectives of ownership, forms of ownership, real estate finance methods, valuation of property, present value theory, depreciation and tax considerations, cash flow projections and the management plan. Prerequisites: 2933. No lab fee charged.

2935 Property Management Case Study 3-0-3

A case study utilizing a property in the Cincinnati area on which the student will develop a complete management plan. The student is allowed to utilize in a real management situation all the techniques and skills of property management developed in course 2931, 2932, 2933, and 2934, and to apply them in the form of a management plan created by the student for a specific property.

Prerequisites: 2933 and 2934. No lab fee charged.

2936 Institutional Property Management 3-0-3

Techniques for successful management of non-traditional housing. This course provides training in HUD housing, nursing home care, handicapped housing and those facilities providing services for people with special needs.

Prerequisites: 2933. No lab fee charged.

2940 Real Estate Sales

Listing real estate. The exclusive listing. Listing goals and aids. Classified advertising, Qualifying buyers. Financing. Showing the property. The purchase contract. Obtaining and presenting the offer. Creative salesmanship.

Prerequisites: 2951. No lab fee charged.

2944 Accounting Information Systems 3-0-3

This course takes the viewpoint that it is the company's responsibility to design an accounting system with emphasis on internal accounting controls. Logically organized, it is equally meaningful to students of accounting, management, or information systems. Topics move from manual systems to computer-based systesm; and in a parallel treatment, the same subsystems in manual mode are coverted to computer-based mode. Prerequisites: 2913. No lab fee charged.

2945 Residential Construction

3-0-3

This course is a "bricks and mortar" course for the nonconstructionist, topics covered will include site work and concrete; building structure to the roof; finishing trades and scheduling; cost estimating; and the lender and the appraiser.

Prerequisites: None. No lab fee charged.

2951 Real Estate Principles & Practices

An introduction to real estate economics; principles of contracts, financing, brokerage, appraisal. This course is required by the state of Ohio prior to taking the sales license exam. See how broad god he wesless 1918

2952 Real Estate Brokerage

3-0-3

Introduction to the operation of a real estate brokerage: office management; selecting, training, and retaining sales personnel; marketing and advertising; and expansion.

Prerequisites: 2951, 2953. No lab fee charged.

2953 Real Estate Law

Law of agency as applied to real estate, law of fixtures, estates including leases. Conveyancing of real estate, the sales contract, the mortgage, deeds and recording. Real estate brokers and managers, license laws of Ohio. Zoning, cooperatives, and condominiums. This course is required by the state of Ohio prior to taking the sales license exam. Prerequisites: None. No lab fee charged.

2954 Real Estate Finance

3-0-3

A study of financing real estate including major instruments, mortgage market, financial institutions, government influence, evaluation and risk in lending, and amortization and present value of future income streams. Required by state of Ohio prior to taking brokers license Prerequisites: 2951, 2953. No lab fee charged.

2955 Real Estate Appraisal I - Residential

Methodolgy of appraising: residential property. Theory of appraisal techniques. The three basic approaches of appraising: market comparison, cost of replacement, and income capitalization. Required by the state of Ohio prior to taking the brokers license exam.

Prerequisites: 2951, 2952, 2953. No lab fee charged.

2956 Real Estate Appraisal II - Income Producing Properties 3-0-3 Comprehensive analysis of theory and practical application of preparing an appraisal on investment property. Appraisal techniques unique in the area of income producing properties. A term case study project is assigned providing practical experience in utilizing the income approach. Prerequisites: 2955. No lab fee charged.

2957 Real Estate Seminar: Special Topics

Issues and problems facing the real estate industry. Case studies discussed.

Prerequisites: 2951, 2952, 2953, 2954, 2955, 2956. No lab fee charged.

2960 Principles of Finance

Study of consumer finance, small business and large business finance, including scheduling, transporting and flow of goods. Prerequisites: 2905. No lab fee charged.

2961 Financial Planning

Effective financial planning is consumerism applied to your financial affairs. It involves coordinated, realistic planning in the areas of buying insurance, homes, and investment property, accumulating capital, retirement planning, tax planning and estate planning. Prerequisites: None. No lab fee charged.

2962 Investment Management I 3-0-3

Principles and techniques involved in selecting and managing a portfolio; including securities, stocks, bonds, etc., depending on the financial needs and resources of the client. Course covers the concepts involved with the sources and uses of investment funds.

Prerequisites: 2926. No lab fee charged.

2963 Investment Tax

3-0-3

Course content will cover tax treatment of all savings and investment vehicles including IRAs and pension plans. Discussion will identify tax benefits of various investments including federal, state, city and personal property implications.

Prerequisites: None. No lab fee charged.

2970 Contemporary Management Concepts 3-0-3

Study of the Basic Management Theories, including Theory X, Theory Y, Theory Z and Quality Circles Management. The course includes practical applications of these theories in current management situations. Prerequisites: 2926, 1832. No lab fee charged.

2975 Business Management Seminar 3-0-3

An in-depth management course using the case study and simulation methods. The course covers the entire scope of management including all functional and decision making areas. Prerequisites: 2970. No lab fee charged.

3001 Typewriting I

A beginning course in typewriting including keyboard mastery, machine parts, introduction to the business letter, and simple tabulation exercises. Prerequisites: None. Lab fee charged.

3002 Typewriting Illumination and Landings easierless

Brief review of keyboard and techniques; intensified drills on improve-

ment of speed and accuracy; progress through business letters, forms, and tabulation.

Prerequisites: Minimum grade of "C" in Typewriting I or permission from coordinator. Lab fee charged.

3003 Typewriting III

The development of skills, knowledge, and techniques applicable to typewriting. Opportunity is provided for the student to experience situations in which problem solving is necessary, advanced typing problems and techniques. Knowledge and skills involved in production typewrit-

Prerequisites: Minimum grade of "C" in Typewriting II or permission from coordinator. Lab fee charged.

3004 Typewriting IV

Application of the basic processes of typewriting. The adaptation of jobanalysis data to letter writing, manuscripts, forms, duplication, statistical tabulation, reports, legal documents, and rough draft material.

Prerequisites: Minimum grade of "C" in Typewriting III or permission from coordinator. Lab fee charged.

2-3-3

3005 Administrative Typewriting An introduction to touch typewriting with problem-solving emphasis on business correspondence, tabulation, telegrams, duplicating masters, and the special typing assignments encountered in administrative positions. Prerequisites: None. Lab fee charged.

3021 Office Procedures

An introduction to the training and development of personality qualities essential to the office worker and the development of principles and procedures fundamental to basic office duties and activities. Prerequisites: None. Lab fee charged.

3022 Word Processing Office Applications 2-3-3

A survey of the techniques, processes, operations and applications of information processing equipment. Equipment used in the class include electronic typewriters, standalone display editing word processors, and multi-terminal word processors.

Prerequisites: 3001 or permission of the coordinator. Lab fee charged.

3023 Machine Transcription

An introduction to transcribing machines and to the techniques of machine transcription on various models of word processing equipment and/or typewriters. Students will also review basic grammar, punctuation and spelling for successful output of mailable documents.

Prerequisites: 3001 and 1009. WPS students must have a grade of "C" or better in 3023 to continue with program sequence. ADSS and GOS stu-

must have a grade of "C" or better in 3023. Lab fee charged.

3024 Secretarial Procedures

2-3-3

Business information applicable to office employment. Emphasis on important responsibilities of the office worker pertaining to business communications, travel, meetings, reference and preparation of reports, including a continuation of the operations/applications of machine transcription emphasizing correct grammar, punctuation and spelling. Prerequisites: 3021. Lab fee charged.

3025 Legal Secretarial Procedures I 2-3-3

Among topics to be studied are legal correspondence and filing, judicial procedures, law books and other reference materials, introductory research techniques, probate procedures, civil suits, public relations, and seeking, keeping or changing jobs.

Prerequisites: Shorthand III or IV with a grade of "C" or better, 1823. Lab 3027 Office Practicum

Designed for the student who has elected to follow the General Secretarial Curriculum. Each student's program is individually designed to futher develop the necessary skills required to secure a position in his or her chosen field, including basic office routines, human relations, and individual responsibilities.

Prerequisites: None. Lab fee charged.

3028 Secretarial Practicum 3-7-5

An intensive course in secretarial practicum emphasizing the area of business that is of particular interest to the student. Each student's program is to be individually designed to provide an opportunity to strengthen those areas where he may need additional training as well as to provide realistic practice in his chosen field, including decision-making responsibility, creative work, and human relations.

Prerequisites: 3027. No lab fee charged.

3032 Office Procedures/Professional Development 2-3-3

A continuation of training in office procedures and human relations principles with emphasis placed on oral and written office communications,

negotiating, assertiveness, and professional development.

Prerequisites: 3021. No lab fee charged.

3045 Legal Research Projects I

2-8-4

Individualized projects to equip the student with the techniques for law search and research.

Prerequisites: 1823 and permission of coordinator. No lab fee charged.

3048 Word Processing Operations I

A comprehensive "hands on" application of the basic operation and management of word processing and the text management system. The course will introduce students to a set of computer-assisted instruction lessons especially designed to acquaint students with the Advanced Text Management System display terminal. This course is not to be taken for credit by students seeking a degree in the Word Processing Technology. Prerequisites: 3001. Lab fee charged.

3049 Word Processing Operations II

A continuation of the overview of word processing and the completion of the "learn" lessons to prepare students for entry into Text Management and Editing. Students will perform such functions as entering unformatted text, replacing, restructuring and storage of documents and subdocuments. Completion of the "learn" lessons will reinforce the successful operation of the Advanced Text Management System display terminal. This course is not to be taken for credit by students seeking a degree in the Word Processing Technology.

Prerequisites: 3048. Lab fee charged. We bear as least that Least to

3050 Word Processing I

1-4-3

An introduction to word processing will present a historical overview of the development of automatic recording and transcribing equipment to show why word processors are an asset to businesses. This course will offer some "hands on" experience for the student.

Prerequisites: 3001. Lab fee charged.

3051 Word Processing II 1-4-3

The student will be introduced to the basic concepts of text management. They will become familiar with the IBM Document Composition Facility distributed shared-logic system and also various pieces of standalone information/word processors and become knowledgeable enough to process simple documents. Five weeks of 3051 will be spent on the IBM DCF system and five weeks will be spent on a rotational basis utilizing the standalone information processors.

Prerequisites: 3050. Lab fee charged.

3052 Text Management

1-4-3

The student will continue the study of standalone word processing equipment introduced in Word Processing II. They will learn how to input documents from hard copy and/or a dictation system. They will use codes and formatting controls to edit and manipulate text for final output.

Prerequisites: Grade of "C" or better from 3051 and 3023 or corequisite

3023. Lab fee charged.

3060 Introduction to Word/Information Processing 2-0-2

This course will present a historical overview of the development of automatic recording and transcribing equipment to show why word processors are an asset to businesses.

Prerequisites: None. No lab fee charged.

3061 Word/Information Processing I 1-4-3

This course is designed for students choosing a career in word/information processing. Students will receive "hands-on," practical experience on the IBM Personal Computer.

Prerequisites: 3001 or permission of the coordinator. Lab fee charged.

3062 Information Records Processing

This course is designed to acquaint students with a database management tool which involves creating, sorting, and manipulating files within a data management environment. Students will also become acquainted with an electronic spreadsheet environment utilizing the IBM Personal Computer. The creation of database records and spreadsheet applications are designed to enable students to logically sequence computer operations. Prerequisites: 3001, 1850 or permission of coordinator. Lab fee charged.

3063 Word/Information Processing II

This course is an introduction to several different word processors, including the Exxon Series 500 Information Processor and the Wang Word Processing System. Introductory information includes formatting documents, inserting and deleting text, text entry, editing and manipulating text, and printing documents.

Prerequisites: 3001, 3060, or permission of coordinator. Lab fee charged.

3064 Word/Information Processing Simulations 1-4-3

This course combines the students' skills in machine transcription and in the use of the equipment experienced in courses 3063 and 3023. Through the use of simulated office experiences, the students will transcribe documents from cassette tapes, rough draft materials, revision of originals, etc., and will produce final copy using the word processing equipment at their disposal.

Prerequisites: Must have a grade of "C" or better in 3023 before this class can be taken. Also, 3001, 3060, 3063, or permission of coordinator. Corequisite: 3065. Lab fee charged.

3065 Advanced Word/Information Processing 1-4-3

This course is designed for students to perform advanced functions on the equipment introduced in course 3063. These functions include advanced printing, document assembly, merging, stop codes, decimal alignment, pagination and repagination, headers and footers, superscripts and subscripts, global search and replace, and right margin justification.

Prerequisites: Must have a grade of "C" or better in 3023 before this class can be taken. Also, 3001, 3060, 3063 or permission of coordinator. Corequisite: 3064. Lab fee charged.

3066 Text Processing

1-4-3

This course is designed for students to perform advanced functions in the manipulation of text on personal computers.

Prerequisites: 3001, 3060, 3061, 3062, 3063, 3064, 3065, 3023, or permission of coordinator. Lab fee charged.

3067 Word/Information Processing Administration 2-3-3

The role of the word/information processing administrator and/or supervisor of word/information processing will be explored. Office simulations and special projects will enhance the various duties and functions of word/information processing administration. Case studies and the psychological aspects of supervision of automated offices from a secretarial standpoint will be discussed.

Prerequisites: 3001, 3060, 3064, and 3065. Lab fee charged.

3080 Speedwriting I

2-3-3

Designed for those students who have had no previous speedwriting training. Emphasis is on rapid reading of plate material, mastery of principles of theory, including brief forms. The student is introduced to writing speedwriting and transcribing on the typewriter from speedwriting notes. Prerequisites: 3001 or permission of the coordinator. Lab fee charged.

3081 Speedwriting II

2-3-3

Designed for those students who have had previous speedwriting training and can transcribe within a 5 percent error allowance from speedwriting notes dictated at the rate of 60 words per minute. A continuation of the mastery of principles of theory from 3080. The student is introduced to dictation from material which is not familiar. Emphasis is on speed development.

Prerequisites: Minimum grade of "C" in 3080 or permission of coordinator. Lab fee charged.

3082 Shorthand I - Century 21

2-3-3

Designed for those students who have had no previous shorthand training. Century 21 Shorthand is used. Rapid reading of plate material and mastery of principles of theory, including speed forms is emphasized. The student is introduced to writing shorthand and transcribing on the typewriter from shorthand notes.

Prerequisites: 3001 or permission of the coordinator. Lab fee charged.

3083 Shorthand II - C21

2-3-3

A continuation of Shorthand I, Century 21, and/or designed for those students who have had previous shorthand training who can pass a two-minute, 60 words per minute take. A continuation of principles from 3082 and an introduction to dictation from unfamiliar material. Emphasis is on speed development.

Prerequisites: Minimum grade of "C" in 3082 or permission of coordinator. Lab fee charged.

3084 Shorthand I - Gregg

2-3-3

Designed for those students who have had no previous shorthand training. Emphasis is on rapid reading of plate material and mastery of principles of theory, including brief forms. The student is introduced to writing shorthand and transcribing on the typewriter from shorthand notes. Prerequisites: 3001 or permission of the coordinator. Lab fee charged.

3085 Shorthand II - Gregg

2-3-3

A continuation of Shorthand I, Gregg, and/or designed for those students who have had previous shorthand training who can pass a two-minute, 60 words per minute take. A continuation of principles from 3084 and an introduction to dictation from unfamiliar material. Emphasis is on speed development.

Prerequisites: Minimum grade of "C" in 3084 or permission of coordinator. Lab fee charged.

3086 Shorthand III - Speedwriting/C21/Gregg

2-3-3

An advanced course designed for those students who have had previous

Speedwriting, Century 21, or Gregg shorthand training. Emphasis is on speed development from both familiar and unfamiliar material.

Prerequisites: Minimum grade of "C" in 3081, 3083, or 3085 or permission of coordinator. Lab fee charged.

3087 Transcription I - Speedwriting/C21/Gregg 2-8-5

A continuation of the study of Speedwriting, Century 21, and Gregg shorthand fundamentals and a development of transcription skill. Emphasis is on the development of mailable transcription, with a review of punctuation and spelling.

Prerequisites: Minimum grade of "C" in 3086 or 3089 or permission of coordinator. Lab fee charged.

3088 Transcription II - Speedwriting/C21/Gregg Continuation of 3087. Emphasis on mailable transcription. Integration of office-style dictation and the mailable letter to meet office standards. Prerequisites: Minimum grade of "C" in 3087 or permission of coordinator. Lab fee charged.

3089 Shorthand IV - Speedwriting/C21/Gregg 2-3-3

Designed for those students who enter the program with advanced standing and who are placed in advanced shorthand. Emphasis is on speed development from familiar and unfamiliar material and development of mailable transcription.

Prerequisites: Minimum grade of "C" in 3086 or permission of coordinator. Lab fee charged.

3094 Workshops in Business Var-0-Var

Consideration and study of selected issues and topics in the business technologies area designed to meet current needs. Content and emphasis varies from year to year.

Prerequisites: None. Lab fee charged.

3500 Orientation to Horticulture Occupations

An introduction to the various horticulture occupations. Various guest speakers will discuss benefits, working conditions, abilities needed, and job levels within the horticulture industries.
Prerequisites: None. No lab fee charged.

3501 Soils and Plant Nutrition 3-0-3

A basic course dealing with the formation and physical, chemical and biological properties which affect plant growth.

Prerequisites: 2200 or 2209. No lab fee charged.

3502 Horticulture Science

To provide a basic understanding of plant classification, structures, physiology, development, and the environmental conditions which effect plant growth.

Prerequisites: None. Lab fee charged.

3504 Woody Plant Materials I

The study of woody plants primarily grown by nurseries and found in the landscape and secondarily found in naturalized settings of Ohio. The deciduous and evergreen trees, shrubs, and vines will be studied with emphasis on identifying features, cultures, and landscape use. Weekly plant walk field trips are required.

Prerequisites: None. No lab fee charged.

3505 Herbaceous Plant Materials

Classification, identification, and general cultural requirements of annuals, perennials, bulbs, and roses, commonly used in garden plantings. Prerequisites: None. No lab fee charged.

3506 Nursery Management

An introduction to techniques and practices used in the commercial production of herbaceous and woody plants. Plant propagation, field and container production, and marketing are emphasized.

Prerequisites: None. Lab fee charged.

3507 Arboriculture

A study of the commercial aboriculture business. The diagnosis and treatment of tree ills, principles and techniques used to protect trees from disease and damage, pruning, removal, and climbing safety are emphasized. Field activities required.

Prerequisites: 3510, 3521, 3532. No lab fee charged.

3508 Turfgrass Management 2-3-3

Principles and practices of identification, growth, uses, establishment, and pest control of turfgrass areas. Field trips required. Prerequisites: 3510. No lab fee charged.

3509 Principles of Landscape Design

A course in landscape development for residential sites. The design process, graphics, and lettering are emphasized. Drawing tools to be provided by student.

Prerequisites: None. Lab fee charged.

3510 Horticulture and Turfgrass Equipment

2-3-3

A study of the operation and maintenance of equipment used in various horticultural enterprises, especially small gasoline engines; tractors, sprayers, chain saws, and various other equipment and hand tools are demonstrated with emphasis on safety and skill. Prerequisites: None. Lab fee charged.

3511 Landscape Construction

1-5-3

The techniques and use of materials for construction and installation of various landscape plantings and features such as decks, patios, trellises, benches, steps, walls, pools, fences, streams, and mounds. Use of hand and power tools is emphasized. Field trips required. Prerequisites: 3509, 3510. Lab fee charged.

3515 Woody Plant Materials II

The study of woody plants primarily grown by nurseries and used in the landscape. Secondary consideration is given to novel plants found in arboretums and those plants in naturalized settings in the state of Ohio. The deciduous and evergreen trees, shrubs, and vines will be covered with emphasis on identifying features, culture, and landscape use. Weekly plant walk field trips required. Prerequisites: None. No lab fee charged.

3516 Herbaceous Plants II

2-3-

3516 Herbaceous Plants II

2-3-3

A continuation of Herbaceous Plants I, with emphasis on annual and biennial flowers, and fall flowering perennials. Landscape use of herbaceous plants is studied and design and growth of flower borders is practiced. Prerequisites: None. No lab fee charged.

3518 Advanced Landscape Design

A continuation of the principles of Landscape Design, with progressively difficult problems. Emphasis is placed on basic details of landscape architectural construction. Grading, construction, drainage irrigation factors are examined and utilized in plan development. Prerequisites: 3509. Lab fee charged.

3519 Landscape Contracts and Specifications 3-0-3

A study of planting design, and plan presentation. Typical plantings are examined in the field. Cost estimates, procedures, specifications and types of contracts are studied and developed. Prerequisites: 3511. No lab fee charged.

3521 Entomology & Plant Pathology

Principles and practices in diagnosing and treating plant diseases and insect problems on various horticultural crops.

Prerequisites: None. Lab fee charged.

3525 Plant Propagation

2-2-3

Principles and practices involved in reproducing both woody and herbaceous plant materials. Equipment used in propagation practices will also be covered.

Prerequisites: 3502. Lab fee charged.

3528 Greenhouse Management

2-3-3

Principles and practices involved in building and maintaining the greenhouse and structures controlling the environment within the greenhouse which is vital to plant growth. Prerequisites: None. No lab fee charged.

3530 Horticulture Seminar I

Guest speakers and field trips dealing with current industry topics. "For first year students." Prerequisites: None. No lab fee charged.

3531 Horticulture Seminar II

Guest speakers and field trips dealing with current industry topics. "For second year students." Prerequisites: None. No lab fee charged.

3532 Landscape Maintenance 2-3-3

Principles and practices involved in the maintenance of ornamental plants including planting, fertilizing, pruning, pest control, and other related maintenance practices. Field project required. Prerequisites: None. Lab fee charged.

3533 Landscape Irrigation 2344252019 Indiagnosis book 2-3-3

A study of the design, construction, installation and use of landscape irrigation systems.

Prerequisites: 3501, 3508. Lab fee charged.

3534 Interior Plantscaping

2-2-3

Identification, culture, and maintenance of tropical plants used in residential and commercial interior plantings. Field trips required. Prerequisites: None. No lab fee charged.

3535 Woody Plant Materials III

2-3-3

A course emphasizing plants commercially available and widely used in

the landscape and nursery industry. Special emphasis will be on cultivar distinctions and landscape use.

Prerequisites: 3504, 3515. No lab fee charged.

3540 Introduction to Foral Design

A basic course dealing with principles of making simple flower arrangements and corsages. Types of design, style, principle tools, equipment, materials, foliage and flower types are covered. Prerequisites: None. Lab fee charged.

3541 Floriculture Production I 2-3-3

The principles and practices involved in managing, scheduling, growing, and marketing greenhouse crops. Crops covered will be those normally grown in this area during the fall and winter months.

Prerequisites: 3501, 3502, 3528. Lab fee charged.

3542 Retail Florist Management

Principles and practices in management and operations of the retail flower shops and garden centers. Advertising, pricing, displays, marketing, inventory, and planning are some of the topics emphasized. Field trips and retailing projects required. Prerequisites: 3540. No lab fee charged.

3543 Floriculture Production II

2-3-3

The principles and practices involved in managing, scheduling, growing, and marketing greenhouse crops. Crops covered will be those normally grown in this area during the winter and early spring months. Prerequisites: 3501, 3502 and 3528. Lab fee charged.

3544 Advanced Floral Design

An advanced course in floral design, dealing with more complex designs such as wedding, hospital, church and funeral work. Prerequisites: 3540. Lab fee charged.

3545 Floriculture Production III

The principles and practices involved in managing, scheduling, growing and marketing greenhouse crops. Crops covered will be those normally grown in this area during the winter, spring and early summer months. Prerequisites: 3501, 3502, 3525, 3528. Lab fee charged.

4000 Introduction to Medical Terminology

3-1-3

An introduction to a basic medical vocabulary through word analysis, definition, spelling and pronunciation of medical and surgical terms. Emphasis on prefixes, suffixes, word roots and their combining forms. Assist in the development of a basic working medical vocabulary. Includes practice in pronunciation and spelling. Prerequisites: None. No lab fee charged.

4001 Introduction to the Health Care System This course will acquaint students with an overall view of the health care system. Topics stressed will include history, organization, areas of specialization, roles and relationships, education, medical ethics and patient

Prerequisites: None. No lab fee charged.

4002 Community Health Services

2-0-2

A survey of community structure, agencies and health care delivery within the community setting.

Prerequisites: None. No lab fee charged.

4005 Chemistry for Health Technologies

3-2-4

This is a course designed to review the fundamental concepts of basic chemistry and provide an introduction to organic and biochemistry. Laboratory experiences will provide an opportunity for the student to perform related procedures.

Prerequisites: High school chemistry or equivalent. Lab fee charged.

4007 Emergency Medical Procedures

An introduction to basic first aid including: emergency care to the sick and injured, safety awareness and habits and prevention and treatment of sudden illness or accidental injury.

Prerequisites: None. Lab fee charged.

4009 General Microbiology

Fundamental microbiology including microbial cell structure, metabolism, growth requirements and ecology. An introduction to principles of immunology and control of microorganisms. Prior courses in high school biology and chemistry are recommended.

Prerequisites: None. Lab fee charged.

4014 Anatomy and Physiology I

Structure and function of the human body. Topics discussed include anatomical terminology, physiological transport, the cell, tissue, skin, the skeletal system, the muscular system and the nervous system. Laboratory includes dissection.

Prerequisites: High school chemistry. Lab fee charged.

4015 Anatomy and Physiology II

Structure and function of the human body. Topics discussed include special senses, endocrine system, blood, the cardiovascular system and the respiratory system. Laboratory includes dissection.

Prerequisites: 4014. Lab fee charged.

4016 Anatomy and Physiology III

3-2-4

3-2-4

Structure and function of the human body. Topics discussed include the gastrointestinal system, metabolism, the renal system, fluids and electrocytes, acid-base balance, reproduction and the immune system. Laboratory includes dissection.

Prerequisites: 4015. Lab fee charged.

4018 Essentials of Pharmacology

3-0-3

A discussion of the basic principles of pharmacology needed by the health technician. Topics include principles, terminology, modes of administration, and mechanisms of action of the major drug groups. Prerequisites: 4014 and 4015. Corequisites: 4016 (or equivalent) or permission of instructor. No lab fee charged.

4020 Fundamentals of Pathophysiology

5-0-5

An introduction to basic disease processes including necrosis, inflammation, repair, developmental abnormalities, neoplasia, immune disorders and infectious disease. The pathogenesis of representative diseases in each category will be discussed.

Prerequisites: 4014, 4015, and 4016 (or equivalent) or permission of instructor. No lab fee charged.

4023 Immunology

A study of structure and function of the immune system. Includes discussions of antigen, antibody, lymphocytes, serology, complement, immune disease and transplant reactions.

Prerequisites: 4016. No lab fee charged.

4025 Kinesiology

5-0-5

A study of the movement of body parts stressing the relationship to rehabilitation therapy.

Prerequisites: 4014, 4015. No lab fee charged.

4029 General Microbiology and Immunology 4-3-5

Fundamental microbiology including microbial cell structure, metabolism, growth requirements and ecology, principles of immunology and control of microorganisms. A study of structure and function of the immune system. Includes discussions of antigen, antibody, immune disease and transplant reactions.

Prerequisites: 4015. Lab fee charged.

4030 Technology of Education for Health

Principles and techniques for planning, designing, producing, implementing and evaluation of an instructional program. For health occupations students.

Prerequisites: None. No lab fee charged.

4031 Health Care Management

Topics included in this course are management functions, organizational structure, line and staff relationships, position descriptions, job procedures, personnel evaluations, budgeting and general management techniques of health care institutions.

Prerequisites: Ten weeks of work experience in health care facility. No lab fee charged.

4041 Integrated Science I and the street because the science in

This course is an introduction to basic concepts in chemistry and biology. Included is weights and measures; inorganic, organic and biochemistry; cell structure and function; genetics and microbiology. Prerequisites: None. Lab fee charged.

4042 Integrated Science II

This course includes basic concepts of anatomy, physiology, pathology and pharmacology as they relate to the skeletal, muscular, nervous, endocrine and cardiovascular systems.

Prerequisites: 4041 or high school biology and chemistry. Lab fee charged.

4043 Integrated Science III stand & nottation of additional

This course includes basic concepts of anatomy, physiology, pathology and pharmacology as they relate to the integumentary, respiratory, gastrointestinal, renal, reproductive and immune systems. Prerequisites: 4042. Lab fee charged.

4050 Patient Care Skills

Basic nursing principles including verbal and non-verbal communication, body mechanics, procedures for assisting patients to walk, patient positioning, general isolation procedures, use of restraints and vital signs. An introduction to services provided by the clinical lab is also presented. Prerequisites: None. Lab fee charged.

Prerequisites: None. No lab fee charged.

4094 Workshops in Health Technologies

Consideration and study of selected issues and topics in the health technologies area designed to meet current needs. Content and emphasis varies from year to year.

Prerequisites: None. No lab fee charged.

4099 Special Topics in Health

Var-Var-1/4

A student initiated academic pursuit, mutually agreed upon by the student and faculty member and carried on outside the classroom. Before registration, the student must have the plan of study approved by a supervising faculty member and the Dean of Health Technologies. Prerequisites: Varies. No lab fee charged.

4100 Fundamentals of Nutrition

A basic introduction to the science and art of nutrition. Includes fundamental study of the food nutrients, their digestion absorption, and metabolism; the relationship of nutrition to health maintenance, and the determination of nutritional needs of adults.

Prerequisites: None. Corequisites: 4111. No lab fee charged.

4102 Nutrition for the Life Cycle

The study of the nutritional needs of the lifecycle from conception through maturity. Nutritional needs are directly correlated with normal growth patterns, taking into consideration the physiological, psychological and sociological changes significant to each age group.

Prerequisites: 4000, 4010, and 4030. Corequisites: 4112. No lab fee

4104 Clinical Nutrition I

An introduction to Nutritional Therapy and Assessment. Course uses a holistic approach to the nutritional treatment of illness, burns, and surgical disorders. Also included are nutritional treatment for bone disorders, rehabilitation, and the role of the CNS in food acceptance. Prerequisites: 2231, 4113, 4015. No lab fee charged.

4105 Introduction to Clinical Nutrition

An introductory study of nutritional therapy as it relates to pathological states of the body systems. Basic nutritional assessment and counseling skills are also covered in this course.

Prerequisites: 4102. Corequisites: 4113. No lab fee charged.

4106 Clinical Nutrition II

Nutritional therapy and assessment for endocrine, cardiovascular, and respiratory disorders. Also included is the role of the senses in food acceptance.

Prerequisites: 4104. Corequisites: 4114, 2232 and 4016. No lab fee charged.

4107 Clinical Nutrition III

Nutritional therapy and assessment for metabolic, gastrointestinal, renal and immune disorders. The role of total parenteral nutrition and enteral tube feedings in nutritional therapy will be explored.

Prerequisites: 4106. Corequisites: 4115, 2233, 4017. No lab fee charged.

4108 Community Nutrition

A study of nutritional needs and assessment techniques within community wellness, and health maintenance programs. High risk groups such as infants, adolescents, pregnant and lactating women, and senior citizens are studied.

Prerequisites: 4107. Corequisites: 4116. Lab fee charged.

4109 Dietetics Seminar

Comprehensive examination of nutrition care knowledge. Evaluation of field experiences, job trends and opportunities, community resources and professional organizations.

Prerequisites: Completion of all Dietetic Technician courses or in final term. No lab fee charged.

4111 Dietetics Orientation & Directed Practice I 1-3-1

Orientation to the field of nutrition and dietetics, its roles, mission and relationship to the health care team. The role of the Dietetic Technician as a paraprofessional in the dietetics field is specifically explored. Directed Practice component includes field trips, role playing sessions, guest speakers, etc.

Prerequisites: Acceptance into Dietetics program. No lab fee charged.

4112 Dietetics Directed Practice II

Nutrition care rotation in a health care facility parallel to didactics covered in Normal Nutrition.

Prerequisites: 4102, 4111. Lab fee charged.

4113 Dietetics Directed Practice III

0-8-1

Nutrition care rotation in a health care facility parallel to didactics covered in Nutrition in Human Growth & Development.

Prerequisites: 4112. Corequisites: 4105. No lab fee charged.

4114 Dietetics Directed Practice IV

0-10-2

Nutrition care rotation in a health care facility parallel to didactics covered in Nutrition in Disease.

Prerequisites: 4113. Corequisites: 4106. Lab fee charged.

4115 Dietetics Directed Practice V | noisubant anniholistal 0-10-2

Nutrition care rotation in a health care facility parallel to didactics coverd in Diet Therapy.

Prerequisites: 4114. Corequisites: 4107. No lab fee charged.

4116 Dietetics Directed Practice VI

0-8-1

Nutrition care rotation in a health care facility parallel to didactics covered in Dietetics Seminar.

Prerequisites: 4115. Corequisites: 4109. No lab fee charged.

4117 Dietetic Technician Nutrition Care Homecare Directed

This directed practice provides the nutrition care dietetic technician student with home nutrition care delivery system experience. The student will be responsible for visiting, assessing, developing care plans and educating patients and nurses within the patients home under the guidance of a clinical instructor and the home care nursing staff.

Prerequisites: 4113. No lab fee charged.

4121 Food Management

The fundamentals of household food preparation and meal management. Topics include: food composition related to nutritional value, principles of menu planning, food economics and time management. Laboratory includes: preparation and evaluation of all food groups and a meal presentation to a small group.

Prerequisites: None. Lab fee charged.

4122 Introduction to Food Systems

This course serves as a basic introduction to the principles of health care food systems. Topics addressed are institutional menu planning recipe standardization, purchasing of supplies, inventory controls, equipment maintenance and management and supervision of quality food production and service.

Prerequisites: None. Corequisites: 4143. No lab fee charged.

4123 Institutional Menu Planning nobstanting of

3-3-4

Principles and practices of menu planning related to schools, hospitals, and health care institutions. Consideration of costs, utilization of labor, equipment, purchasing, inventory and storage will be stressed. Prerequisites: 4122. Corequisite: 4144. No Lab fee charged.

4124 Food Service Sanitation Certificate

This course includes all aspects of institutional food service sanitation for both the commercial and health care industries. Upon completion the student will receive a certificate approved by the Ohio Department of Health.

Prerequisites: None. No lab fee charged.

4125 Quantity Food Production

2-5-4

A lecture/laboratory course in quantity food preparation involving the use of institutional equipment, the preparation and evaluation of foods using standardized quantity recipes, and the estimation of raw material needs and resources management.

Prerequisites: 4120, 4121. Corequisites: 4143. Lab fee charged.

4126 Records & Cost Control

2-0-2

Record keeping and controls needed in health care food service operations. Health care applications of Accounting I and II principles are incor-

Prerequisites: 2912. Corequisites: None. No lab fee charged.

4127 Institutional Food Service Equipment, Layout, and Planning

2-3-3

Food service layout, planning, and analysis, space requirements and flow line charts. Selection of building materials, time, and motion are studied considering the special needs of health care facilities. Prerequisites: 4122. Corequisite: 4146. No lab fee charged.

4128 Food Service and Catering

Determination of the type of service best suited for an operation. Planning, implementing and evaluating meals served for special activities. Prerequisites: 4125, 4145. No lab fee charged.

4130 Introduction to Nutrition

3-0-3

An introduction to nutrition for students with a minimal science background. Course includes basic nutrient composition, food sources, food legislation, foodborne illnesses, menu planning and relationship of diet to health and disease.

Prerequisites: None. No lab fee charged.

4131 Developmental Nutrition

Nutritional science and its effect on human physiology with applications to all population groups. Nutrient composition, digestion absorption and metabolism for normal states are studied.

Prerequisites: None. No lab fee charged.

4132 Basic Diet Therapy

A study of nutritional therapy and diet modification for pathological states of the various body systems. Basic nutritional assessment and counseling techniques are covered in this course.

Prerequisites: 4131. No lab fee charged.

4133 Food Science

2-0-2

The study of the chemical, physical and microbiological properties of food and the effect of processing and handling on its properties. This course is designated for the student with basic science and some food preparation background. Lab will include experimentation that will support lecture material.

Prerequisites: 4100, 4120, High School Chemistry or 2200. Lab fee charged.

4141 Dietary Manager's Orientation 1-3-2

This course is designed to orientate the new student to Health Care Food Management. It includes standards and regulations as defined by federal, state and accreditation recommendations and how these standards impact on dietetic care in hospitals and care centers. The roles and professional interrelationships of health care providers is discussed so that the Dietary Manager student knows his/her responsibilities and appropriate role. Information gathering techniques are initiated, including resource material gathering and client interviewing.

Prerequisites: None. No lab fee charged.

4143 Food Systems Management Directed Practice III 1-8-2 Food service management rotation in a health care facility parallel to didactics studied in quantity food production.

Prerequisites: 4112. Corequisites: 4122. No lab fee charged.

4144 Food Service Management Directed Practice IV 2-8-3 Food service management rotation in a health care facility parallel to

didactics studied in Institutional Menu Planning. Prerequisites: 4143. Corequisites: 4123. Lab fee charged.

4145 Food Systems Management Directed Practice V

Food Service Management rotation in a health care facility parallel to didactics studied in Food Procurement Systems.

Prerequisites: 4144. Corequisities: 4125. No lab fee charged.

4146 Food Service Management Directed Practice VI

2-8-3

2-8-3

Food Service Management rotation paralleling didactics studied in Food Service and Catering.

Prerequisites: 4145. Corequisites: 4128. No lab fee charged.

4147 Dietetic Manager Seminar 1-0-1

This course will briefly review the role of the Dietary Manager in the health care field, food preparation and management systems, nutrition care and personnel management in preparation for the Dietary Managers certification examination. Test taking skills will be discussed and practiced.

Prerequisites: None. No lab fee charged.

4155 Basic Management Techniques for Food Service

This course is designed to provide applied dietary management skills for persons employed in small hospitals and nursing homes. Content will cover practical knowledge needed for recruiting, hiring, training, and disciplining personnel. Organizational structure will be addressed along with policy and procedure writing, effective communication and leadership skills.

Prerequisites: None. No lab fee charged.

4194 Workshops in Dietetics

Consideration and study of selected issues and topics in the dietetics area designed to meet current needs. Content and emphasis varies from year Prerequisites: None. No lab fee charged.

4199 Special Studies - Dietetics

Var-Var-1/4

3-0-3

A student initiated academic pursuit, mutually agreed upon by the student and faculty member and carried on outside the classroom. Before registration, the student must have the plan of study approved by a supervising faculty member and the Dean of Health Technologies.

4200 Medical Office Practice I

2-3-3

Course will include the following content areas: Medical Law & Ethics, communication skills, team working relationships, career & professional characteristics and behavior. Students will begin working through laboratory practice modules simulating office practices for performing administrative functions.

Prerequisites: 3002 or equivalent. No lab fee charged.

4201 Medical Office Practice II

2-3-3

Fundamentals of patient reception, appointment making, mail handling, telephone techniques, inventory procedures, care of equipment and supplies, medical-legal relationships of the medical office and the assistant's responsibility.

Prerequisites: 4200. Lab fee charged.

4202 Clinical Procedures I

2-3-3

Fundamentals of patient preparation, history taking, positioning, draping, taking and recording the vital signs, assisting the physician with the examinations, caring for the physician's bag, caring for the examination room before and after a patient.

Prerequisites: Acceptance into the Medical Assisting program. Lab fee charged.

4203 Clinical Procedures II

Course will include the following content areas: medications, sterile procedures, assisting in minor office surgeries, assisting in ob/gyn special examinations - pap smears, pelvics, proctology, etc. Prerequisites: 4202. Lab fee charged.

4204 Medical Laboratory Procedures I 2-3-3

Course will include modular units in the following content areas: basic laboratory procedures in hematology and urinalysis, specimen collection and preparation, wet preps, mono tests, pregnancy testing, laboratory safety, blood typing and special chemistry procedures. Prerequisites: 4041. Corequisites: 4042. Lab fee charged.

4205 Medical Laboratory Procedures II 2-3-3

Course will include modular units in the following content areas: laboratory chemistry procedures, diagnostic testing, electrocardiograms, x-ray procedures and safety, stool collection and testing, sputum collection and testing, throat and nasal culturing.

Prerequisites: 4204. Lab fee charged.

4206 Medical Laboratory Procedures III 2-3-3

Course will include special laboratory and diagnostic procedures and services, such as physical therapy, special x-ray, Houlter monitoring, electrocardiogram interpretation, ultrasound, hematology procedures, blood chemistry procedures, and blood banking procedures. Prerequisites: 4205. Lab fee charged.

4208 Insurance & Patient Records

2-2-3

Fundamental principles of initiating, maintaining, keeping patient records in the doctor's office; filing and indexing of records; retention of records; private, government and group insurance programs; completion of insurance forms.

Prerequisites: None. Lab fee charged.

4209 Medical Assistant Seminar

2-4-3

In this course, student preparation for entry-level position in the professional field is stressed through competency testing, student seminar presentations, certification testing, and student-run clinics.
Prerequisites: Permission of instructor. Lab fee charged.

0-21-3

4211 Medical Assisting Clinical Experience I
Clinical practice in the physician Clinical practice in the physician's office, health centers and clinics, hospital out-patient departments, performing functions related to medical assisting. The student will spend an equal number of hours in clinical and administrative assisting. Students will not receive remuneration for these

Prerequisites: 4200, 4201, 4202, 4203, 4204, or permission of instructor. Lab fee charged.

4212 Medical Assisting Clinical Experience II

Clinical practice in the physician's office, health centers and clinics, hospital out-patient department, performing function related to medical assisting. The student will spend an equal number of hours in clinical and administrative assisting. Students will not receive remuneration for these

Prerequisites: 4208, 4205, 4441, 4211, or permission of instructor. No lab fee charged.

4213 Medical Assisting Clinical Experience III - 100 State Souls

Clinical practice in the physician's office, health centers and clinics, hospital out-patient departments, performing functions related to medical assisting. The student will spend an equal number of hours in clinical and administrative assisting. Students will not receive remuneration for these experiences.

Prerequisites: 4211, 4212 or permission of instructor. No lab fee charged.

4224 Advanced Clinical Procedures

Course will include areas related to specialties and special patient concerns. Included will be information related to geriatrics, pediatrics, ophthalmology, orthopedics and ENT.

Prerequisites: 4203. Lab fee charged.

4270 Orientation to Health Unit Coordinating

3-0-3

This course will discuss the gradual evolution of Health Unit Coordinating, while orienting the student to the organization and structure of health care facilities. Legal and ethical issues of Health Unit Coordinating, patient admissions, transfers, and discharges are included.

Prerequisites: Acceptance into Unit Coord. program. No lab fee charged.

4271 Health Unit Coordinating I

The course incorporates concepts presented in course 4270 into the area of transcribing physician orders. The course will provide special emphasis on transcription of orders involving medications. Prerequisites: 4270. Lab fee charged.

4272 Health Unit Coordinating II

This course is a continuation of course 4271, and focuses on skills involving transcription of orders for diagnostic and therapeutic procedures. Prerequisites: 4271. Lab fee charged.

4273 Health Unit Coordinating III

This course will briefly review the role of the Health Unit Coordinator in specialty nursing units within the hospital. Consideration and study of current skills and topics in Health Unit Coordinating are also included. Prerequisites: 4272, or permission of instructor. No lab fee charged.

4280 Health Unit Coordinator Practicum

0 - 20 - 4

This course is designed to be a learning experience in which the student will be involved in the application of principles learned in the classroom to actual performance of those principles at an off-campus site. Prerequisites: Permission of instructor. Lab fee charged.

4293 Certification Exam Review Workshop for Health Unit Coordinators

3-0-3

Examination review workshop is designed for entry level exam candidates and others who wish a review of health unit coordinator (clerk) practice and procedures. The course will feature lecture and discussion sessions regarding the national exam for unit coordinators and review test taking skills.

Prerequisites: None. No lab fee charged.

4294 Workshops in Medical Assisting

Var-Var-1/4

Consideration and study of selected issues and topics in the medical assisting area designed to meet current needs. Content and emphasis varies from year to year.

Prerequisites: None. No lab fee charged.

4299 Special Studies - Medical Assisting

A student initiated academic pursuit, mutually agreed upon by the student and faculty member and carried on outside the classroom. Before registration, the student must have the plan of study approved by a supervising faculty member and the Dean of Health Technologies. Prerequisites: None. No lab fee charged.

4301 Basic Laboratory Techniques

1-3-2

Orientation to the field of Medical Technology, includes a discussion of the role of the medical laboratory technician, study of the use and maintenance of laboratory equipment and basic laboratory techniques including specimen collection and handling.

Prerequisites: Acceptance into technical courses of MLT Program. Lab fee charged.

4302 Basic Hematology & Urinalysis

4-6-6

Study of the theory and practice of hematology, coagulation, and urinalysis with emphasis on routine procedures in these areas.

Prerequisites: Taken concurrent with or subsequent to 4301. Lab fee charged.

4304 Clinical Chemistry

Study of theory and procedures of routine manual and automated chemical laboratory procedures, their quality control and use of related instru-

tance of blood group determinants and donor procedures. Also includes a

study of serology. Performance of routine typing, crossmatching, antibody

screening, cell panels and routine serologic procedures.

Prerequisites: 2231, 2232, 4301. Corequisites: 2233. Lab fee charged.

4305 Blood Bank - Serology A study of blood banking procedures and theory including the inheri-

4352 Clinical Experience II

1-24-4

Students are assigned to the clinical laboratory where previously learned theories and procedures are applied in a patient-oriented atmosphere. Students are required to complete a minimum of 240 hours. This may necessitate makeup work to accommodate the scheduled holidays of the College. Students also attend seminar activities on campus, relating to the

4307 Hematology II

4306 Clinical Microbiology

2-3-3

Advanced hematology including study of anemia, leukemias, hemoglobinpathies and other blood dyscrasias. Instruction in the theory of coagulation and special hematologic procedures. Prerequisites: 4302, 4311. Lab fee charged.

Prerequisites: 4023, 4301. Lab fee charged.

Study of diagnostic microbiology including isolation, identification of bac-

teria, use of media, aerobic and anaerobic culturing techniques and preparation and staining of slides. Includes parasitology and mycology.

4308 Special Laboratory Procedures

Prerequisites: 4009. Lab fee charged.

Discussion of special laboratory procedures from the various areas, to include RIA, parasitology, mycology, spinal fluids, etc.

Prerequisites: Completion of all MLT courses. Lab fee charged.

4309 Medical Laboratory Seminar

3-0-3

Review of the various departments of the clinical laboratory, includes a registry type comprehensive examination.

Prerequisites: Completion of all MLT courses. No lab fee charged.

4311 Clinical Applications I - Hematology and Urinalysis Laboratory practice in routine hematology and urinalysis. The practicum will stress workload organization, record keeping, quality control, routine maintenance and troubleshooting of related instrumentations.

Prerequisites: Concurrent with or subsequent to 4302. Lab fee charged.

4312 Clinical Applications II - Clinical Chemistry

Laboratory experience in performance of routine manual and automated procedures in clinical chemistry. Emphasis on workload organization, record keeping, quality control, routine maintenance and trouble-shooting for related instrumentation.

Prerequisites: Must be taken concurrent with or subsequent to 4304. Lab fee charged.

4313 Clinical Applications III - Blood Bank-Serology 0-6-2

Laboratory practice in routine blood banking and serology. The practicum will stress workload organization, record keeping and quality con-

Prerequisites: Must be taken concurrent with or subsequent to 4305. Lab fee charged.

4314 Clinical Applications IV - Clinical Microbiology

Practical experience in routine clinical microbiology procedures. The practicum will stress workload organization, record keeping and quality control applied to the microbiology lab.

Prerequisites: Must be taken concurrent with or subsequent to 4306. Lab fee charged.

4315 Laboratory Practicum I

On-campus laboratory experience in hematology, urinalysis, coagulation, and clinical chemistry. The practicum will stress workload organization, record keeping, quality control, routine maintenance, and troubleshooting of related instrumentation. Prerequisites: 4302, 4304. Lab fee charged.

4316 Laboratory Practicum II

On-campus laboratory experience in Blood Bank, Serology, and Clinical Microbiology. The Practicum stresses workload organization, record keeping, and quality control.

Prerequisites: 4305, 4306. Lab fee charged.

4350 Orientation to the Clinical Lab

1-9-2

Experience in the clinical laboratory, designed to familiarize the student with laboratory organization, specimen collection and handling with emphasis on phlebotomy experience.

Prerequisites: 4301. Lab fee charged.

4351 Clinical Experience I

1-24-4

Students are assigned to a clinical laboratory where previously learned theories and procedures are applied in a patient-oriented atmosphere. Students are required to complete a minimum of 240 hours. This may necessitate makeup work to accommodate the scheduled holidays of the College. Students also attend seminar activities on campus, relating to the clinical experience.

Prerequisites: 4311. No lab fee charged.

clinical experience.

Prerequisites: 4312. No lab fee charged.

4353 Medical Laboratory Clinical Practice 1-40-6

Students are assigned to the clinical laboratory where previously learned theories and procedures in hematology, urinalysis, and clinical chemistry are applied in a patient-oriented atmosphere. Students are required to complete a minimum of 400 hours. This may necessitate make-up work to accommodate scheduled College holidays.

Prerequisites: 4315, 4350. No lab fee charged.

4390 Basic Phlebotomy

This course introduces the student to blood drawing. Topics include terminology, anatomy and physiology appropriate to phlebotomy; techniques of veni puncture and capillary sampling; professional responsibilities. 10 hours of practice with techniques.

Prerequisites: None. No lab fee charged.

4391 Phlebotomy Practicum I

0-5-1

Placement in a local clinical facility for practice in blood drawing techniques on adults. Optional pediatric experience available. Prerequisites: 4390. Lab fee charged.

4394 Interpretation of Laboratory Values

3-0-3

Course 4394 will present many of the clinical laboratory tests. How samples are collected and analyzed will be outlined. Also discussed will be how the results are reported and what they may mean clinically to the health professional.

Prerequisites: None. No lab fee charged.

4399 Special Studies - Medical Laboratory Var-Var-1/4

A student initiated academic pursuit, mutually agreed upon by the student and faculty member and carried on outside the classroom. Before registration, the student must have the plan of study approved by a supervising faculty member and the Dean of Health Technologies.

Prerequisites: None. No lab fee charged.

4400 Medical Word Processing

Basic medical word processing and text management, medical terminology and transcription related to diseases and operations encountered in transcription of history and physical examination; radiology, operative and pathology reports; discharge summaries, medical specialty reports and autopsy reports.

Prerequisites: Typing ability of 40 words per minute and 4000. Lab fee charged.

4408 Advanced Medical Terminology

This course will provide a continuation of the study of basic medical terminology. Terms emphasized in the areas of pathology, pharmacology, psychiatry, radiology, obstetrics, cancer medicine and other associate specialty terms.

Prerequisites: 4000. No lab fee charged.

4409 Medical Record Seminar

3-0-3

Review of medical record science courses, anatomy and physiology, and terminology in preparation for the accreditation examination.

Prerequisites: 4401, 4402, 4403, 4404. No lab fee charged.

4414 Record Science, Filing Systems and Record Analysis Introduction to the Medical Record field. History of advances in medicine and medical records. Organization and structure of the American Medical Record Association; roles and functions of the RRA and ART, admitting office procedures, major numbering and filing systems, indexes and registers, including Tumor Registry, and case record analysis emphasizing JCAH Accreditation policies.

Prerequisites: None. Lab fee charged.

4415 Legal Aspects of Records in Health Care 3-1-4 Facilities

The medical record as a legal document; confidential communication; authorization for release of medical information; consent forms; preparation and presentation of medical record for courtroom use; the medical witness; legal responsibilities of hospital administration, employees and physicians; record management systems in other health care facilities including Medicare and Medicaid Laws and J.C.A.H. standards for these facilities.

Prerequisites: 4414. No lab fee charged.

charged.

4416 Coding of Diagnoses, Operation and Procedures Coding classification according to ICD-9-CM. Introduction to other major coding systems including SNDO, DRG, SNOP, DSM-11. Prerequisites: 4000, 4408, 4414 or permission of instructor. Lab fee

4417 Medical Statistics and Record Abstracting Statistical procedures including calculation of daily census, monthly census and percentages. Completion of monthly reports; analysis of reports including simple retrieval through abstracting of medical information from the patient record and learning the process of computer terminal input.

Prerequisites: 4414, 4415 and 4416. Lab fee charged.

4418 Tumor Registry, Utilization Review & Quality 4-0-4 Assurance

Further understanding of the Tumor Registry with special emphasis on Morphology Coding; Completion of Tumor Registry Abstract and Followup Abstract. Fundamentals of Federal requirements for the Utilization Review process; utilization of the CPHA Length of Stay Handbook to establish appropriate length of stay by Diagnosis and/or Operative Procedure; federal and JCAH requirements. Computer applications to Tumor Registry and Utilization Review.

Prerequisites: 4414, 4416, 4417. Lab fee charged.

4428 Medical Record Directed Practice I

0 - 16 - 3

Practice in the hospital medical record department performing the following: Admission and discharge procedures; correspondence and release of medical information; outpatient clinics; medical records review and completion; coding of diseases, operations, and procedures by ICD-9-CM; abstracting medical data for computer input and statistical reporting. Prerequisites: None. Lab fee charged.

4429 Medical Record Directed Practice II

Practice in hospital medical record departments performing the following: Cancer Registry, Utilization Review, Quality Assurance and Medical Audit, experience with Health records in Nursing Homes, selected special interest assignments, and directed experience in supervision. Approved for grade of S or U.

Prerequisites: None. No lab fee charged.

4441 Medical Word Processing Operations I

Basic medical word processing and text management operation, medical terminology and transcription related to diseases and operations encountered in transcription of history and physical examinations; radiology, operative, and pathology reports; discharge summaries.

Prerequisites: Typing ability of 40 words per minute and 4000. Lab fee charged.

4442 Medical Word Processing Operations II

Medical word processing and text management operation; medical terminology and transcription related to diseases and operations encountered in transcription of various types of medical specialty reports; autopsy

Prerequisites: 4441. Lab fee charged.

Coding of Diagnoses, Operations and Procedures - Pt. 1

2-3-4

Coding classification according to ICD-9-CM. Introduction to other major coding systems including SNDO, DRG, SNOP, DMS-11.

This course is the first half of course 4416.

Prerequisites: 4000, 4014, or permission of instructor. Corequisites: 4408. No lab fee charged.

4446 Coding of Diagnoses, Operations and Procedures - Pt. 2

2-3-4

Coding classification according to ICD-9-CM. Introduction to other major coding systems including SNDO, DRG, SNOP, DSM-11. This course is the second half of course 4416.

Prerequisites: 4445. No lab fee charged.

4494 Workshops in Medical Records

Consideration and study of selected issues and topics in the medical records area designed to meet current needs. Content and emphasis varies from year to year.

Prerequisites: None. Lab fee charged.

4499 Special Studies - Medical Records

Var-Var-Var

A student initiated academic pursuit, mutually agreed upon by the student and faculty member and carried on outside the classroom. Before registration, the student must have the plan of study approved by a supervising faculty member and the Dean of Health Technologies. Prerequisites: None. No lab fee charged.

4505 Introduction to Surgery I

This course will discuss the gradual evolution of modern day surgery, orient the student to the structure and organization of the operating room department and also introduce the student to the roles and functions of OR personnel. Aseptic techniques pertinent to the OR are stressed. Preparation and storage of OR supplies and methods of sterilization are addressed.

Prerequisites: Acceptance into Surgical Technology program or permission of the instructor. No lab fee charged.

4506 Introduction to Surgery II

This course is a continuation of course 4505, and focuses on OR equipment, electrosurgical unit, catheters/drains, sponges, needles, sutures and instruments. The process of wound healing is reviewed. Pre- and post-op care of the surgical client is included. Anesthesia and OR drugs are examined.

Prerequisites: 4505 or permission of instructor. No lab fee charged.

4531 General Surgery I

Course content will include discussion of laparotomy, hernias, biliary and bowel operative procedures. The course will focus on an analysis of associated pathological conditions in relationship to normal anatomy and physiology and integrate x-ray diagnostic tests which are routinely used to confirm the pathological state. The student will then focus on respective operative procedures which are utilized as part of the treatment modality for the surgical client.

Prerequisites: 4506 or permission of instructor. No lab fee charged.

4532 General Surgery II

Course content will include discussion of breast, gynecological, genitourinary and peripheral vascular pathology and associated operative procedures. The course will focus on an analysis of associated pathological conditions in relationship to normal anatomy and physiology and integrate x-ray diagnostic tests which are routinely used to confirm the pathological state. The student will then focus on respective operative procedures which are utilized as part of the treatment modality for the surgical client.

Prerequisites: 4531 or permission of instructor. No lab fee charged.

4533 Surgical Specialties I

4-0-4

This course incorporates the study of selected specialized areas of surgery, namely cardio-thoracic surgery and associated pulmonary and cardiac pathology; opthalmic surgery and pathology; ear, nose and throat surgery and related pathology. Each specialty area is introduced with a review of the respective anatomy and physiology.

Prerequisites: 4532 or permission of instructor. No lab fee charged.

4534 Surgical Specialties II

4-0-4

Course content includes a discussion of the surgical specialties of reconstructive/plastic surgery, orthopedic surgery and neurosurgery. Associated pathology related to each specialty area is discussed. A review of the respective anatomy and physiology precedes each specialty area. Prerequisites 4533 or permission of instructor. No lab fee charged.

3-0-3

The course consists of a comprehensive review of surgical technology. Prerequisites: 4534. No lab fee charged.

4541 ST Surgery Lab

This lab experience introduces the student to the actual operating room suite and supportive hospital departments. Students are oriented to the furnishings of an operating room, OR attire, transportation of patients and basic aseptic techniques. Tours of facilities which provide sterile supplies to the operating room are arranged by the instructor. Sterile technique utilized for the handling of sterile supplies will be demonstrated. The course provides supervised practice of beginning level OR skills with a mock OR setting on-campus and also with the actual operating room of an affiliated hospital.

Prerequisites: 4505, 4506. Lab fee charged.

4542 ST Clinical Experience I

This course involves supervised practice of OR skills within a practice lab on-campus and also within the operating rooms of an affiliated hospital. Demonstrations of positioning patients, skin preps, catheterization, scrubbing, gowning and gloving will be presented. Prerequisites: 4541. Lab fee charged.

4543 ST Clinical Experience II

This course is a continuation of 4542. Students will gain additional proficiency in scrubbing, gowning and gloving. Demonstrations of draping, table set-ups and passing surgical instruments will be presented. Prerequisites: 4542. Lab fee charged.

4544 ST Clinical Experience III

This course provides the student with a culminating experience within the operating room setting of an affiliated hospital. The course will focus on the integration of basic OR skills while functioning in the scrub position. Prerequisites: 4543. Lab fee charged.

4551 ST Clinical Practice I

Students are assigned to an affiliated hospital where previously learned concepts and procedures are applied daily during operative procedures. Students will be required to demonstrate competency in first position scrub skills for a variety of general surgery procedures. Students also attend a one hour weekly seminar, on-campus, relating to the field experience.

Prerequisites: Permission of instructor. Lab fee charged.

4552 ST Clinical Practice II

1-40-7

The course is a continuation of 4551. The course will focus on specialty operative procedures. Students also attend a one hour weekly seminar, on-campus, relating to the field experience. Prerequisites: 4551. No lab fee charged.

4553 ST Clinical Practice III

This course is a continuation of 4552 and continues to focus on surgical specialties. Students may be rotated to other affiliating hospitals. Students also attend a one hour weekly seminar, on-campus, relating to the field experience.

Prerequisites: 4552. No lab fee charged.

4594 Fundamentals of Operating Room Nursing

3-2-4

The Fundamentals of Operating Room Nursing is a basic introductory course for senior level nursing students and registered nurses seeking continuing education in the area of operating room nursing. The course content provides an introduction to basic orientation to the operating room. Demonstration of sterile techniques of scrubbing, gowning and gloving will be presented. Discussion of the 0.R. environment, patient preparation and supplies such as sutures, needles and basic instruments, anesthesia and O.R. drugs are included.

Prerequisites: For senior level nursing students and registered nurses. Lab fee charged.

4599 Special Studies - Surgical Technology

Var-Var-1/4

A student initiated academic pursuit, mutually agreed upon by the student and faculty member and carried on outside the classroom. Before registration, the student must have the plan of study approved by a supervising faculty member and the Dean of Health Technologies. Prerequisites: None. No lab fee charged.

4600 Introduction to Occupational Therapy

2-3-3

Course surveys the history, philosophy, and development of the profession and its relationship to other Allied Health professions. The role and function of the Occupational Therapist and Occupational Therapy Assistant are defined; team approach is defined. The student is introduced to current practice areas of Occupational Therapy through observation in community Occupational Therapy settings.

Prerequisites: Acceptance into OTA program. No lab fee charged.

4610 Theory of Occupational Therapy

Introduction to the developmental process of human performance; exploration of life tasks and roles from birth to death; instruction in ageappropriate balance of work, self-care play/leisure; introduction to the impact of disease and dysfunction in human occupation; and development of the therapeutic use of self.

Prerequisites: 4600. No lab fee charged.

Occupational Therapy Concepts and Skills -**Psychiatric**

3-0-3

Introduction to the role of Occupational Therapy in the treatment of adults in a mental health setting; development of analysis and observational skills; use of self and group for therapeutic intervention and application of group process. Communication and interpersonal skills are developed. Documentation skills are developed. Prerequisites: 4600, 4610. No lab fee charged.

4612 Occupational Therapy Concepts and Skills - Pediatrics 3-0-3 Introduction to the role of Occupational Therapy in the treatment of children with physical and/or psychological dysfunction. Emphasis is on normal development and developmental disabilities and the selection of age-appropriate treatment interventions. Documentation skills are developed. Team approach is explored.

Prerequisites: 4600, 4610. No lab fee charged.

Occupational Therapy Concepts and Skills - Phys **Disabilities**

Introduction to the role of Occupational Treatment in the treatment of adults with physical dysfunction to include acute care and rehabilitation. Emphasis is on understanding the treatment techniques utilized for various disabling conditions. Treatment planning and implementation are developed along with documentation skills. Prerequisites: 4600, 4610. No lab fee charged.

Occupational Therapy Concepts and **Skills - Geriatrics**

3-0-3

Introduction to the role of Occupational Therapy with the elderly population. Emphasis is on understanding the aging process and dysfunction pertinent to the elderly. The role of the OT assistant in non-traditional settings is explored.

Prerequisites: 4600, 4610. No lab fee charged.

4620 Techniques of Occupational Therapy

0-4-2

Instruction in the use of crafts and activity as therapeutic modalities in the treatment of dysfunction. The concepts of activity analysis and therapeutic adaptations are emphasized. Problem-solving skills are developed. Prerequisites: 4600. Lab fee charged.

4621 Therapeutic Media for Occupational Therapy - Psychiatric

Instruction in therapeutic intervention for adults in a mental health setting to include development of leadership skills necessary for a group setting, application of group process and use of purposeful activity and crafts as therapeutic tools.

Prerequisites: 4600, 4620. Lab fee charged.

4622 Therapeutic Media for Occupational **Therapy - Pediatrics**

0-4-2

Instruction in therapeutic intervention in a pediatric setting to include the use of play as a therapeutic tool, adaptive equipment, therapeutic techniques for positioning, handling, feeding, and basic developmental screening. Problem solving skills are emphasized. Prerequisites: 4600, 4620. Lab fee charged.

Therapeutic Media for Occupational Therapy -**Physical Disabilities**

Instruction in therapeutic intervention for physically disabled adults in acute care and rehabilitation settings to include techniques related to activities of daily living, therapeutic adaptations, orthotics, and use of adaptive/assistive equipment. Problem solving is emphasized. Prerequisites: 4600, 4620. Lab fee charged.

4624 Therapeutic Media for Occupational Therapy -

Instruction in therapeutic intervention for elderly individuals in a geriatric setting to include selection of age-appropriate activity, use of recreational/leisure activity, and application of group process. Occupational Therapy treatment approaches in non-traditional settings are explored. Prerequisites: 4600, 4620. Lab fee charged.

Survey of Therapeutic Media for Occupational Therapy

0-6-3

Instruction in the use of various crafts and activities, cost analysis, and application in various clinical settings. Teaching and in-servicing skills are developed.

Prerequisites: 4600, 4620. Lab fee charged.

4631 Occupational Therapy Fundamentals of Practice 3-0-3 Issues concerning licensure, liability, professionalism, continuing education, and national registration are discussed. The relationships are explored and participation in the promotion of OT is discussed. Preparation is begun for Level II Field Work Experience. Prerequisites: 4600, 4610. No lab fee charged.

4651 Occupational Therapy Assisting Field Work 1 (Level I) 0-8-2 Provides the opportunity for directed observation and participation in a community Occupational Therapy setting. Prerequisites: 4600, 4611, permission of instructor. Lab fee charged.

4652 Occupational Therapy Assisting Field Work 2 (Level I) 0-8-2 Provides the opportunity for directed observation and participation in a community Occupational Therapy setting. Prerequisites: 4651. No lab fee charged.

4653 Occupational Therapy Assisting Field Work 3 (Level I) 0-8-2 Provides the opportunity for directed observation and participation in a community Occupational Therapy setting. Prerequisites: 4652. No lab fee charged.

4660 Occupational Therapy Assisting Field Work 4

A clinical practicum in two different Occupational Therapy settings, Two-5 week periods of full time work experiences under the supervision of a registered occupational therapist provide the student with in-depth experiences in the delivery of Occupational Therapy services to a variety of ages and conditions.

Prerequisites: 4653 and permission of instructor. Lab fee charged.

4701 Respiratory Therapy Science I History of and introduction to the field of Respiratory Therapy. Introduction to respiratory therapy equipment and basic patient skills. Topics include oxygen equipment, gas cylinders, vital signs, patient communication, body mechanics and isolation procedures. Prerequisites: Acceptance into RT program. Lab fee charged.

4702 Respiratory Therapy Science II 2-3-3 Respiratory therapy equipment and procedures with emphasis on recognition, assembly and function of equipment used in IPPB, O2 and aerosol

therapy and chest physiotherapy. Pharmacology applicable to respiratory therapy procedures is treated. Pediatric applications will also be discussed.

Prerequisites: 4701. Lab fee charged.

4703 Respiratory Therapy Science III

The first part of the course is an introduction to general clinical medicine with emphasis on pulmonary disease. This course is intended to acquaint the student with disease processes which will be encountered in the patient setting. The second part of the course introduces continuous mechanical ventilation with emphasis on recognition, assembly and function of equipment and routine monitoring under supervision. Pediatric applications will be discussed.

Prerequisites: 4702. Lab fee charged.

4704 Respiratory Therapy Science IV

3-2-4

A continuation of 4703. Additional emphasis is placed upon clinical assessment of patients on mechanical ventilators. Prerequisites: 4703. Lab fee charged.

4705 Respiratory Therapy Science V

Pulmonary function testing at the bedside and in the laboratory. Emphasis is placed on the theory of pulmonary measurement, equipment and application of test results to patient care. Theory, design and application of pulmonary rehabilitation techniques is introduced. Prerequisites: 4704. Lab fee charged.

4706 Respiratory Therapy Science VI

3-2-4

Respiratory care for the critically ill patient. Invasive and noninvasive monitoring techniques, patient assessment and evaluation also discussed. Prerequisites: Acceptance into Respiratory Therapist program or special permission. Lab fee charged.

4707 Respiratory Therapy Science VII

3-0-3

An in-depth study of neonatal and pediatric cardiopulmonary diseases and their treatment. Identification and care of the high risk newborn dis-

Prerequisites: 4706. No lab fee charged.

4711 Respiratory Therapy Clinical Practice I

An introduction to the hospital environment with practical application of O2 delivery apparatus, cleaning, disinfection, sterilization, and airway management.

Prerequisites: 4701, 4720. Lab fee charged.

4712 Respiratory Therapy Clinical Practice II

Practical application of IPPB, humidity, aerosol therapy, chest physiotherapy and incentive spirometry. Pulmonary function testing is demonstrated.

Prerequisites: 4711, 4702. No lab fee charged.

4713 Respiratory Therapy Clinical Practice III

0-24-5

A continuation of 4712. Neonatal applications are also treated. Prerequisites: 4712, 4703. No lab fee charged.

4714 Respiratory Therapy Clinical Practicum I

A clinical practicum in all phases of respiratory care with emphasis on patients requiring mechanical ventilation. Prerequisites: 4713, 4704. No lab fee charged.

4715 Respiratory Therapy Clinical Practice IV

0-16-2

Application of advanced respiratory care techniques. Emphasis on patients in the critical care setting. Prerequisites: 4706. Lab fee charged.

4716 Respiratory Therapy Clinical Practicum II

A clinical practicum which provides experience with advanced respiratory care techniques. Home care techniques, supervisory and training experiences also included.

Prerequisites: 4707, 4715. No lab fee charged.

4718 Pulmonary Diseases I

2-0-2

In-depth study of pulmonary disease, including pathophysiology, diagnosis and treatment. Emphasis placed on the role of respiratory therapy in the management of patients with pulmonary disease. Prerequisites: 4702. No lab fee charged.

4719 Pulmonary Diseases II

2-0-2

Continuation of 4718.

Prerequisites: 4718. No lab fee charged.

4720 Cardiopulmonary Anatomy & Physiology

3-2-4

Detailed anatomy and physiology of the respiratory and circulatory systems. Emphasis is placed on those topics relevant to respiratory therapy; i.e., ventilation, diffusion, O2 and CO2 transport, red cell physiology, EKG and neonatal cardiopulmonary anatomy and physiology, renal physiology and acid-base balance.

Prerequisites: None. Lab fee charged.

4723 Respiratory Therapy Seminar

2-2-3 Basic theories and techniques of supervision and education in relation to respiratory care. Student presentation of case reports and library research to their peers. Practice in NBRC testing techniques also provided. Prerequisites: 4715 or permission of instructor. No lab fee charged.

4770 Basic Electrocardiography

An introduction to the principles of electrocardiography. Designed to acquaint students with cardiac anatomy and physiology, taking the ECG, patient preparation, recognizing and correcting distortion problems, mounting and filing of the ECG, special patients and other procedures. Prerequisites: 4000 and acceptance into ECG program. Lab fee charged.

4771 Arrhythmia Recognition

Advanced course in electrocardiography with emphasis on recognizing arrhythmias. Review of basic ECG principles and cardiac anatomy. Emphasis on measurement and calculation of ECG patterns for determining variations in heart patterns (Dyshrythmias). Prerequisites: 4770 or experience with ECG. No lab fee charged.

4780 Electrocardiography Clinical Practice 0 - 20 - 1This course consists of clinical practice of electrocardiography in a local hospital. Students will be supervised by practicing ECG technicians employed by the hospital. Grade of Satisfactory or Unsatisfactory.

Prerequisites: 4770. Lab fee charged.

4794 Workshops in Respiratory Therapy Var-Var-1/4 Consideration and study of selected issues and topics in the respiratory therapy area designed to meet current needs. Content and emphasis varies from year-to-year.

Prerequisites: None. Lab fee charged.

4795 Workshop in Respiratory Therapy II Var-Var-1/4

Consideration and study of selected issues and topics in the respiratory therapy area designed to meet current needs. Content and emphasis varies from year to year.

Prerequisites: None. No lab fee charged.

4799 Special Studies - Respiratory Therapy Var-Var-1/4 A student initiated academic pursuit, mutually agreed upon by the student and faculty member and carried on outside the classroom. Before registration, the student must have the plan of study approved by a supervising faculty member and the dean of health technologies. Prerequisites: None. No lab fee charged.

5001 Portfolio Development

1-2-2

This course gives the student a range of opportunities to assess prior life and work experiences in order to set realistic career goals, and introduces the student to career requirements and opportunities in technical communications. The learning style instrument and a personality test will provide the student with information and strategies to assist the student with personal goal setting. Assessments of communication, calculation and keyboarding skills will place the student in the proper sequence of courses within the program. An amplified resume will be constructed and a journal will be developed as the student begins the portfolio development process. Conferences with the instructor are required and interviews with professionals in the field of technical communications are recommended. This course will culminate in the development of the final portfolio which will be presented in the last course. Prerequisites: None. No lab fee charged.

5010 Planning the Illustrations

Technical communications requires the use of visual and graphic aids as integral parts of documents, and students must learn to use them as effectively as any rhetorical device in their communications. The student will prepare tables, charts and graphs; design figures with titles and captions; determine kinds and styles of illustrations; and obtain source data for illustrations. The course will also focus on the use of photographic equipment and the effective use of photographs in documents. The editorial functions of the format edit, which ensures conformity, will be applied to illustrations

Prerequisites: None. No lab fee charged.

5022 Technical Presentations

Technical communicators must participate in meetings, deliver small group presentations, develop and use audio-visual materials and listen to comments. These communications skills will be practiced and improved as students plan and deliver technical presentations. Students will also assess others' presentations-both orally and in writing. Prerequisites: None. No lab fee charged.

5032 Writing the Project Copy II

2-5-4

The nature of argumentative, narrative and expository prose demands different expression and design considerations. This course explores these options for technical communications. Reports explaining processes will be studied and written. Solicited and unsolicited proposals will be examined as well. Students will be required to describe mechanisms, analyze operations, and classify information in their technical fields. Prerequisites: 5001 & 1018. Lab fee charged.

5033 Writing the Project Copy III

2-5-4

This course concludes a three-part series that examines different types of project copy. Technical communicators must be able to develop tutorial and reference material to instruct their clients/audiences. This course examines the instructional process, its constraints and requirements. Students will develop and write project copies to meet specific needs of different audiences. Different media will be discussed to meet the needs of the project.

Prerequisites: 5001 & 5032. Lab fee charged. Management

5040 Project Organization

2-3-3

This course explores the many options and decisions that technical communicators must consider before, during, and after they write and edit the drafts of the document. This problem centering process involves decisions about preparing outlines, coordinating or subordinating ideas, analyzing and selecting information, and grouping information into working units. Different types of analysis, outlining, classification, and coordination will be studied along with the use of headings. The course will also examine the role of the technical editor in the project and present an overview of the editorial process.

Prerequisites: 1017. No lab fee charged.

5041 Editing the Project Copy I

2-2-3

This course explores skills and techniques that are essential to the editorial process. Three components of the editorial process will be studied. The "integrity" edit ensures that the parts of a document match. The screening edit, setting minimum editorial standards, indentifies and corrects aspects of the project copy (e.g. complete sentences, spelling). The copy clarification edit codes the draft for production notes. Students will edit manuscripts.

Prerequisites: 5040 & 1018. No lab fee charged.

5042 Editing the Project Copy II 2-2-3

Higher level phases of the editorial process are discussed. The mechanical style edit brings the mechanics of the text and figures into consistent conformity. The language edit polishes the document as it reviews the way ideas are expressed. The substantive edit deals with the meaningful content including coherence throughout the document. Students will develop their own editorial criteria for their projects.

Prerequisites: 5041. No lab fee charged.

5051 Project Planning

This course focuses on the theory, principles and strategies needed for planning projects in technical communications. This course analyzes the problem solving process stage by stage. Tasks for project planning will involve recognizing requirements, defining needs and audience, determining time-frames, considering resources and soliciting ideas and feedback. Time management will also be examined. Prerequisites: 5040 & 1018. No lab fee charged

5089 Conducting the Project Review

A panel of professional technical communicators from local business and industry will certify the student as "competent" to gain an entry level position as a technical communicator. The student will present the portfolio which is developed from two years of classes, cooperative work experiences, and effort. This course must be taken last in the program. The student must achieve certification from this panel in order to apply for

Prerequisites: 5022, 5001, 5033, & 5042. No lab fee charged.

5099 Special Problems in Technical Writing Var-Var-Var Individual study and special projects pertaining to the particular technology in which the student is enrolled. Open to a student wishing advanced standing, independent study and/or research. This course is arranged with the coordinator with the approval of the Dean of the Communication

Prerequisites: None. Lab fee charged.

6106 Modular Programming

Skills Division.

This course is an introduction to programming for those who have not had Pascal, C, or PL/1. Students will use a collection of prewritten modules to write their own programs. Class work will focus on the data structures, data flow and module arrangement for each program. This course is intended for students who will go on to programming in Pascal, C, and other newer languages.

Prerequisites: None. Lab fee charged.

6110 Software Documentation

2-2-3

In this course students will be concerned with the procedures and docu-

mentation used in developing machine control software systems. Using libraries of existing software modules, students will build and execute functioning programs. Formal testing procedures and documentation will be used to compare the performance of the programs with the specification. Bugs will be documented and corrected in some cases. The programs used in this course will control laboratory instruments and other robots. Students will assemble the computer modules of the control sys-

Prerequisites: Some programming exposure. Lab fee charged.

6111 PL/M Programming

PL/M is a subset of the PL/1 language that was designed for systems and machine control programming. It is widely used in computer-controlled industrial machines, including machine tools and robots. This course will introduce students to PL/M programming. Class projects will emphasize external communication, as used in machine control applications. The compiler runs under the iRMX operating system, so students will also be introduced to a professional software development environment. Prerequisites: 1135 or 1137 or experience. Lab fee charged.

6112 Device Control Software

2-2-3

Students will write programs to control simple machines and laboratory instruments. The machines will be connected to the computers through interfaces. Program and machine performance will be tested. Program specifications and pseudocode will be provided. Students will write and test the programs. Advanced students will participate in the design of new procedures and programs. Project documentation will be an important part of the course. Students will write manintenance procedure and structure descriptions, data dictionaries, bug and maintenance reports, progress reports and user documentation. Prerequisites: 6110, 6137. Lab fee charged.

6113 Real Time Programming

2-2-3

In this class students will write programs to monitor and control industrial equipment. Programs written in this course will be used as a basis for the Systems Integration Project class that concludes the ILMP series of courses. The programs will respond in real time to signals from the machines being controlled. Interrupts will be handled using both standalone programs and a real time, multitasking operating system. Programs will be developed from design specification and pseudocode. Students will be responsible for writing and maintaining the necessary design and user documentation.

Prerequisites: 6112. Lab fee charged.

6115 Micro/Mini Operating Systems

A Real Time programming class concentrating on programs to control individual machines. In this class programs that control systems of machines will be developed. Use of a real time, multitasking operation system will be studied. The system is RMX from Intel Corporation. Topics covered will include modification and installation of the operating system, multiple CPU systems, and program interface with the operating system. These topics will be covered in the context of developing system control programs.

Prerequisites: 6111, 6113 or experience. Lab fee charged.

6118 Systems Implementation Project

Programs and techniques developed in previous courses will be applied to other laboratory instrumentation and industrial manufacturing antomation projects. Data collection devices, sensors in various configuration, machine tools, robots and material handling equipment will be controlled and coordinated to produce a product. Student tasks will include installing the software systems, connecting computers, interfaces and machines and testing and debugging system performance. Prerequisites: 6115. Lab fee charged.

6135 "C" Programming II

In this project-oriented class students will develop one or two larger programs. These projects will provide practice with the basic elements of the language learned in "C" programming. It will also provide an opportunity to use some of the advanced features of "C" including file I/O, library functions, structures and unions. Concepts of program design, module building, design documentation and testing will be introduced and applied. Prerequisites: 1135. Lab fee charged.

6136 FORTH Programming II

In this project-oriented class students will develop one or two larger programs. These projects will provide practice with the basic elements of the language learned in FORTH programming. it will also provide an opportunity to use some of the advanced features of FORTH including vectored execution, disk I/O, and compiler extension. Concepts of program design, module building, design documentation and testing will be introduced and applied.

Prerequisites: 1136. Lab fee charged.

6137 Pascal Programming II

In this project-oriented class students will develop one or two larger programs. These projects will provide practice with the basic elements of the language learned in Pascal programming. It will also provide an opportunity to use some of the advanced features of Pascal, including pointers, linked lists and dynamic variables. Concepts of program design, module building, design documentation and testing will be introduced and

Prerequisites: 1137. Lab fee charged.

6611 Technical Laboratory Chemistry I

This course is a blend of laboratory techniques applied to the concepts of general chemistry procedures including lab safety, use of burners, balances, purity of reagents, indentification of types of chemical reactions, stoichiometric relationships and the preparation and dilution of solutions using volumetric apparatus. The structure, properties and states of matter, physical and chemical changes, solution chemistry and general acid-base theories are some of the concepts treated. Distinctions between organic and inorganic compounds are also covered especially as those distinctions relate to bonding and property differences.

Prerequisites: High school chemistry or equivalent and high school algebra or equivalent. Lab fee charged.

6621 Technical Laboratory Chemistry II

This course follows 6611 and emphasizes organic chemistry. Concepts of nomenclature, properties, preparations and typical reactions involving families of organic compounds are covered. Lab procedures will include melting and boiling point determinations, separation and purification techniques, synthesis reactions, and noninstrumental methods for organic group identification.

Prerequisites: 6611. Lab fee charged.

6629 Science of Materials

A study of the physical and mechanical properties of engineering materials and of the tests that are used to determine those properties. The materials studied are primarily ferrous and nonferrous metals, woods, and polymers but there is some discussion of composites and ceramics. Tests include tensils, creep, hardness, torque and impact. Metallographic specimens are mounted, then polished and examined using a metallurgical microscope. Corequisites: 1191. Lab fee charged.

6631 Technical Laboratory Chemistry III

This course continues from 6621 with emphasis on concepts and lab techniques related to oxidation/reduction and kinetics and equilibria as it applies to solubility and acid-base theory. Lab procedures will stress noninstrumental analytical techniques, both qualitative and quantitative. Gravimetric and volumentric (titrametric) procedures are included. Prerequisites: 6621. Lab fee charged.

6639 Fundamentals of Physical Measurement

A study of measurement standards, error and uncertainty, propagation of uncertainty, accuracy and precision and basic statistics. Laboratory experiments are performed utilizing various measuring devices, then the data is analyzed and empirical equations developed. Basic electricity is taught to the extent that the student can understand the fundamental operation of the laboratory equipment used. Prerequisites: 6629 or 7111, 1192. Lab fee charged.

6641 Technical Laboratory Chemistry IV

This course continues from 6631 to emphasize the instrumental aspect of chemical analysis of both inorganic and organic compounds. Lab procedures include specific ion analysis using selective ion electrodes, potentiometric titrations, fluorimetry, polarography, gas chromatography, and visible and UV spectrophotometry.

Prerequisites: 6631. Lab fee charged.

6649 Materials Testing A continuation of the concepts developed in 6629 and 6639. Materials such as concrete, fabrics and paper products are tested, then the collected data analyzed. The course is project oriented where the student will develop the experimental procedure, perform the test, apply appropriate statistical techniques then submit a formal report to the instructor. Prerequisites: 6639, 1192. Lab fee charged.

6659 Analysis of Materials Project Ward and South State Stat

An application of measurement and testing technology to the conception, development, design and completion of an approved project to include the recording, compilation and reporting of project data. Prerequisites: 1180, 6631, 6649. Lab fee charged.

6661 Chemical Contaminants in the Environment

3-0-3

Characterization of contaminations, sources, dispersions, fate of contaminants, effects on human health, environmental quality and examination of

Prerequisites: Basic chemistry or equivalent. No lab fee charged.

7016 Mechanical Systems Drafting

this course. Prerequisites: None. No lab fee charged.

6699 Technical Laboratory Problems

Special problems, projects, seminars and individual study assignments pertinent to technical laboratory areas. Arranged only with approval of

coordinator and dean. Prerequisites: None. No lab fee charged.

6710 Introduction to Lasers

Emission and absorption of photons, elements of the laser, properties of laser light, optical cavities, helium-neon gas lasers, laser classifications and characteristics, introduction to laser safety. Prerequisites/Corequisites: 1172 or 1191. Lab fee charged.

Practical applications of statistical techniques such as X-R charts for varia-

bles and p, np, c and c charts for attributes. Pre-Control techniques will also be discussed. No prerequisites required, but a basic understanding

of algebra is helpful. Students should purchase a scientific calculator for

6720 Geometrical and Wave Optics 3-3-5

Geom. Optics: reflection and refraction of light, mirrors, lenses and prisms. Wave Optics: reflection, interference, diffraction and polarization.

Prerequisites: 1191, 6710. Lab fee charged.

6730 Optical Components and Devices 3-3-5

Optical Components: optical windows, flats, filters and beamsplitters. Laser-Optic Devices: photodetectors, laser power and energy detectors, collimators, autocollimators, beam expanders, spatial filters, electro-optic Q-switch and laser modulators.

Prerequisites: 6720. Lab fee charged.

6740 Applications of Lasers

Laser material processing, curring, drilling, and welding. Air pollution monitoring with lasers. Holography, holographic non-destructive testing. Prerequisites: 6730. Lab fee charged.

6741 Introduction to Fiber Optics 3-3-5

Optics Review-Lenses, Imaging, Numerical Aperature, Diffraction. Light wave fundamentals-dispersion, pulse distortion, reflection at a plane boundary and critical-angle reflections. Wave guides-Modes in symmetric slab wave guide. Optic Fiber wave guides-step index fiber, graded index fiber, atlenuction. Modes in step-index fiber, distortion in step-index fiber. Couplers and connectors-connector principles, lateral misalignment, angular misalignment, end separations. Splices. Prerequisites: 6710. Lab fee charged.

6745 Optical System Design

3-3-5

Co-axial system of two thin lenses, thick lenses, cardinal points. Refraction matrix, translation system matrix, lens matrix. System matrix of two thin lenses. System matrix of combination of lenses. Granssian constants and their physical significance. Lens aberrations. Prerequisites: 6720 Lab fee charged.

6750 Laser Electro-Optic Measurements

Laser power and energy measurements; wavelength; dispersion and refractive index measurements; use of monochromators and spectrophotometers; use of Fabry-Perot. Michaelson. Nd: YAG Laser. Prerequisites: 6740. Lab fee charged.

6999 Special Problems Seminar/Project

Var-Var-1/5

Individual study and/or special project assigned in student's technical field of study. Available to fourth and fifth term students by special arrangement with coordinator and dean. Prerequisites: None. No lab fee charged.

7005 Basic Blueprint Reading and Sketching

Provides a working knowledge of blueprint reading and shop sketching with special application and emphasis for different technologies. Technical terminology is defined and applied in a logical sequence for each new principle.

Prerequisites: None. Lab fee charged.

7008 Basic Engineering Drawing

A beginning course which covers the techniques and functions of drafting. Topics to be covered include equipment, lettering, line quality, sectioning, dimensioning and auxiliary views.

Prerequisites: 1171 or 1191. Lab fee charged.

7009 Engineering Graphics (Aviation)

Read drawings, symbols and schematic diagrams. Draw sketches of repairs and alterations. Apply blueprint information. Use graphs and charts. Identify and select AN hardware. Prerequisites: None. Lab fee charged.

reading. Prerequisites: 7008. Lab fee charged.

2-4-3 Emphasis on floor plans, electrical and plumbing layouts, and blueprint

2-4-3

7018 Electrical Drafting Provides a drawing knowledge of electrical power symbols (ANSI designations) and blueprint reading. Includes: schematics, one-line diagrams, raceway layouts, motor control ladder diagrams, riser diagrams, cable and fixture schedules, grounding systems, lighting layouts power distribution and protective devices, and basic architectural symbols, electronic schematics and digital logic diagrams.

Prerequisites: None. Lab fee charged.

7023 Architectural Drawing-Residential

Residential Drawings to include: floor plans, section views, building elevations, and typical architectural details, symbols, abbreviations, and dimensioning methods. Emphasis on developing a set of residential working drawings.

Prerequisites: None. Corequisite: 1171 or 1191. Lab fee charged.

7024 Architectural Drafting

Construction drawings to include: floor plan layout, structural section views, building elevation and typical architectural details, electrical plans, standard architectural symbols and abbreviations, and conventional dimensioning methods. Emphasis on construction materials and their uses in the building industry. Development and use of perspective and presentation drawings.

Prerequisites/Corequisites: 1171 or 1191 or equivalent. Lab fee charged.

7025 Survey Drafting

2-4-3

Surveyi field notes, cross sections, grading plans, deed abstracts and boundary plots. Computer terrain models.

Prerequisites: 7024, 4910. Corequisites: 1171, 1191 or equivalent. Lab fee charged.

7027 Computer Aided Drafting (Architectural)

A course in Architectural Computer Aided Design/Drafting in which the student will become familiar with CAD/D commands and create a set of architectural working drawings ngs. Students will also investigate other CAD/D techniques such as developing and utilizing symbol libraries. Prerequisites: 7030, 1191, 7024. Lab fee charged.

7030 Computer Programming (BASIC)

Study of the BASIC programming language as a vehicle to write and code computer programs. Course is problem solving oriented. Emphasis is on good program design (flow charting and documents) and efficient, logical coding. Programs will be analyzed, designed and entered by use of a personal computer.

Prerequisites/Corequisites: 1171 or 1191. Lab fee charged.

7031 Computer Programming (FORTRAN) molecular and analysis

Principles of programming, flow charting and coding in FORTRAN language. Lecture and lab problems to show applications in engineering design calculations, automatic control, design optimization, quality control and engineering planning.

Prerequisites: 1171 or 1191. Lab fee charged.

7032 Introduction to Computer Programming (Civil)

2-2-3 Terminology and basic concepts of automation, introduction to BASIC programming with applications in surveying and construction.

Prerequisites/Corequisites: 7920, 2292. No lab fee charged.

7033 Advanced Computer Applications

2-2-3

3-0-3

Compilers, assemblers, and machine language codes are covered along with data file management, efficient programming, and optimum use of memory systems. The computer will be used to communicate via I/O busses with transducers, DC motors, Robots, and other peripherals.

Prerequisites: 7030. No lab fee charged.

7040 Supervision & Management Operational theory and science of management that are pertinent to all levels of supervision. Responsibilities of management to plan, organize, staff and control leading to the accomplishment of organizational and individual goals.

Prerequisites: None. No lab fee charged.

7099 Special Studies - Engineering Technologies Var-Var-1/6 Special studies which may occur on an individual basis to provide a student the opportunity to work on special technical topics in the field of Engineering Technologies. This course may be substituted for technical elective credits.

Prerequisites: None. No lab fee charged.

7102 Machine & Hand Tool Laboratory

Principles and Processes which underlie the use of hand tools, cutting tools, portable equipment and accessories, measuring devices and gauges. Emphasis placed on developing sound trade judgement, safe work habits, and correct work procedures.

Prerequisites: None. Lab fee charged.

7104 Introduction to Machine Tool Processes 3-2-3

Designed to acquaint students to processes used in manufacturing with emphasis on turning, milling, drilling and broaching operations. Measuring instruments, tooling, concepts of horsepower, speeds, feeds are covered. Practical applications on manual and NC equipment. Corequisites: 1171 or 1191. Lab fee charged.

7111 Engineering Materials

The atomic arrangement and properties of common alloys are defined and discussed; steel and cast iron are emphasized, including their response to industrial strengthening processes. Topics of study to include the crystalline structure of solid materials, physical and mechanical properties of materials and the tests which measure these properties, alloying and phase diagrams, heat treatment, and industrial material classifica-

Prerequisites: 7104 or 7416. No lab fee charged.

7130 Engineering Mechanics 3-2-3

Vector algebra is employed to calculate forces and moments and their effects on machine parts, frames, and structures in static equilibrium. Topics of study include free body diagrams, couples, equilibrium, trusses, frames, two and three dimensional force systems, friction, centroids and moment of inertia.

Prerequisites: None. Corequisites: 1192, 2292. No lab fee charged.

7132 Hydraulics & Pneumatics 4-2-4

Basic principles of hydraulics and pneumatics. Study of fluid power components including pumps, pressure, directional, and flow control valves, actuators and miscellaneous devices. Introduction into graphical symbols and common industrial circuits.

Prerequisites: 1172 or 1191, 2291. No lab fee charged.

7133 Industrial Instrumentation 3-2-3

An introduction to transducers used in process control systems. Basic transducer types will be studied: thermal, mechanical, optical. Signal conditioning between transducer and control elements will be discussed. Other topics include: calibration of transducers, discussion of device accuracy and resolution, and data recording techniques.

Prerequisites: 7720. Corequisites: 7730. No lab fee charged.

7135 Fluid Power Systems

Basic principles of hydraulics and pneumatics. Covers the generation, distribution and control of fluid power and fluid transport systems. Includes graphical symbols and circuits. A comprehensive study in the fundamental concepts of servo-hydraulics, air logic, fluidics, machine and process control systems.

Prerequisites: 1191, 2291. No lab fee charged.

7138 Fluid Mechanics (1) 2011 Andrews here appeared as besings.

Principles of fluid mechanics. Topics include: fluids at rest, flow of fluids, pressure and energy losses, laminar and turbulent flow, viscosity, series and parallel pipe systems, and flow measurement devices.

Prerequisites: 1191, 2291. No lab fee charged.

7140 Strength of Materials

Through the application of force and moment analysis techniques acquired in engineering mechanics, Strength of Materials covers the analysis of stresses and strains which occur within machine and structural elements subjected to various types of loads. Machine element dimensions and material specifications will be determined or verified. Topics of study include simple, shear, torsional and bending stresses; deflection and combined stresses.

Prerequisites: 7130, 1192, 2292. No lab fee charged.

7142 Mechanisms Analysis & Design

This course provides an introduction to the analysis and design of mechanisms. The course involves mathematical and graphical solutions of problems involving the kinematics of mechanisms and the interaction of their components, including the study of the displacement, velocity, and acceleration of points within the mechanism. An introduction to gears, gear trains, and cam analysis is included.

Prerequisites: 2291, 2292. Corequisites: 1193, 7146. No lab fee charged.

7143 Process Control Systems I

Introduction to process controls. Course covers closed loop feedback

systems as found in the process control industry. The course integrates transducers, controllers, and actuators into complete control systems. Topics include: discontinuous and continuous control systems, proportional-integral-differential (PID) control algorithms, loop tuning techniques, process stability and quality. Prerequisites: 7133. No lab fee charged.

7144 NC/CNC Programming I

Introduction to numerical control (NC) and computer numerical control (CNC) technology. Emphasis on programming 2 1/2 axes NC milling machine, 2 axes CNC lathe, and 2 1/2 axes CNC mill. shown landsupported Prerequisites: 1191, 7104 or equivalent. Lab fee charged.

7145 Statics & Strength of Materials

A survey course intended for the non-design oriented student. Effects of forces and stresses on materials in various forms and configurations found in engineering and mechanical construction. Use of mathematics in analyzing forces, stresses, moments and equilibrium by use of centroids and moments of inertia. Determination of dimensions and material specifica-

Prerequisites: 1192, 2292. No lab fee charged.

7146 Electro-Mechanical Controls I (Servomechanisms) 3-3-4

This course is divided into two parts: Part I deals with circuitry found in the industry. Topics include: Transistor Drivers, Push-Pull Amplifiers, Bipolar/VMOS Bridge Drivers. Relay driving, resistive and inductive load considerations, power supply and power line conditioning and Triac applications. Part II deals with Programmable Controllers. Topics include contact-coil ladder logic. Also counter-timer and sequence logic are discussed as they apply to on/off control logic.

Prerequisites: 7730, 7738. Corequisites: 7142. Lab fee charged.

7148 Applied Thermodynamics

An introduction to the first and second laws of thermodynamics. Topics to include the energy equation of gases, mollier diagrams, energy utilization, heat transfer, specific heat, carnot cycles, entropy, enthalpy, and adiabatic processes.

Prerequisites: 1192, 2292. Corequisites: 1193. No lab fee charged.

7149 Computer-Aided Manufacturing

An introductory course in the application of computers to the modern manufacturing environment. Topics include: computer-aided design/ computer-aided manufacturing (CAD/CAM), numerical control (NC), computer numerical control (CNC), distributive numerical control (DNC), group technology and flexible manufacturing systems.

Prerequisites: None. Nolab fee charged.

7150 Machine Design I

The application of the principles of engineering mechanics and strength of materials to the analysis and selection of mechanical elements and components. Topics include Treska's and Von Mises' theories of failure, tolerances and fits, keys and couplings, shaft design, columns, and springs. Emphasis will not be entirely on force analysis and calculations, but will also include: economics, installation, safety, servicing, and computer-aided design/selection applications. Prerequisites: 7130, 7140. No lab fee charged.

7153 Process Control Systems II

A continuation of Process Controls I. The course deals with programmable closed loop control systems as used in the control industry. Topics include: programmable controllers, direct digital controllers with PID capability, distributed control systems using local controllers with a central hostand nonlinear systems.

Prerequisites: 7143. No lab fee charged.

7154 NC/CNC Programming II

2-3-3

Emphasis on programming complex problems dealing with combinedand mill and the production turning center. Prerequisites: 7144. Lab fee charged.

7155 Machine Design II

sobute must dilli bas disuot co 4-2-4

A continuation of Machine Design I. Topics include: spur, helical, bevel and worm gearing, belts and chains, plain surface and rolling contact bearings, power and ball screws, bolted and welded connections, and machine frames and structures. Various short term design problems are

Prerequisites: 7150. Corequisites: 7158. No lab fee charged. 7156 Electro-Mechanical Design

A course intended to exercise the student's knowledge of electromechanical systems. It provides the time and opportunity for a student to work on the design, fabrication, assembly and troubleshooting of electromechanical devices and systems. The design is to include ideas covered in most of the student's previous core courses of study. The purpose is to promote independent study, initiative, and creativity by requiring the student to develop the design problem with minimal staff supervision. Prerequisites: 7142, 7146. Corequisites: 7157. Lab fee charged.

Electro-Mechanical Controls II (Automated Systems/Robotics)

3-3-4

The purpose of this course is to develop the concepts of negative feedback for closed loop servo systems. These techniques are vital to modern industry. Topics include: transducers for sensing system parameters, proportional feedback systems for positioning control (basic servo loop), stability analysis, velocity feedback for improved system response, mathematical models of systems & writing systems. Transfer functions. The latter section of the course deals with the problems and benefits of computer control of the servo system. Emphasis is on simple closed loop algorithms to allow computer control of systems. Prerequisites: 7146. Lab fee charged.

7158 Mechanical Systems Design Project

A parallel course to Machine Design II which requires the design, selection, fabrication, assembly and troubleshooting of a mechanical device or system. A final oral and written report encompassing the entire design, including a product demonstration is required.

Prerequisites: 7150. Corequisites: 7155. No lab fee charged.

7160 Computer Aided Drafting I

3-2-3

This is a hands-on oriented course designed to make the student proficient in the CAD workstation as a productive engineering tool. The course will use an approach of learning by doing, and focus on learning the functionality of the CAD technology rather than the skills of producing engineering drawings. It is assumed that the student has already had instruction in engineering drawing. Prerequisites: 7008. Lab fee charged.

7161 CAD/CAM

A project course integrating computer aided design technology with computer aided manufacturing. Projects will be coordinated by the instructor so as to familiarize the students with the realities of a toally automated factory.

Prerequisites: 7160, 7449. No lab fee charged.

7165 Computer Aided Drafting II

Continuation of CAD I with emphasis on working drawings, oblique shapes, and the creation of surface models. Course primarily designed for students in a Mechanical Engineering Technology related major. Prerequisites: 7160. Lab fee charged.

7167 Introduction to Robotics

2-2-3

An introduction to basic concepts of robotics/factory automation where robots are used only as a common tool for better quality and productivity. More specifically, the course will cover such topics as analysis of industrial robotics applications in an automated manufacturing environment, description of mechanical and electrical components, operation and hands-on programming principles, how to select a robot for an industrial application.

Prerequisites: Industrial Exp. or 2nd year student. Lab fee charged.

7170 Computer Aided Design

Advanced computer aided drafting and computer applications in mechanical engineering technology to provide the student with a working knowledge in using the computer as a design tool. The student will write programs in BASIC to perform engineering calculations. In addition, the student will use existing engineering software for complex design analysis.

Prerequisites: 7165, 7030. Corequisites: 7140. Lab fee charged.

7199 Special Problems Seminar - Mechanical

Individual and independent study and special projects pertaining to mechanical engineering technology. The study may deal with an idea or concept normally not covered by existing courses at the College, or with a specific problem found in the industry in which the student is employed. Open to fourth and fifth term students, by special arrangement with the department chairman and divisional director of academic affairs. Prerequisites: Varies. No lab fee charged.

7301 Introduction to Plastic Processes

3-2-3

An introductory survey course for the student who desires a brief but overall coverage of the major types of plastics and plastic processes. Includes the manufacturing techniques and principles of operation of injection, extrusion and vacuum forming equipment. Prerequisites: None. No lab fee charged.

7409 Industrial Safety & OSHA Study of industrial safety programs, safety codes and standards, compensation, and safety inspection. Survey of selected occupational health hazards; solvents, lead, asbestos, welding, heat, noise, etc. Typical industrial policies and facilities for accidents and injuries. Safety devices for

equipment and safety education programs. Special emphasis given to "The Occupational Safety and Health Act" and its special reporting requirements.

Prerequisites: None. No lab fee charged.

7410 Materials Handling

Project course with heavy emphasis on materials flow analysis. Examine material handling elements such as material characteristics, material classifications, unit load, packaging, bulk handling, containerization, selection of equipment, economics of a material handling plan or phased improvements; selected industry problems and trends are analyzed. Prerequisites: None. No lab fee charged.

7412 Introduction to Data Analysis

Designed to acquaint the students with the fundamentals of dimensional metrology along with their applications to the manufacturing system. Topics include data collection and analysis, reading and construction of charts and graphs, and computer-aided reports. Prerequisites/Corequisites: 1171. Lab fee charged.

7416 Manufacturing Processes & Materials I

3-2-3

A course designed to integrate the various machine tools and processes used in manufacturing with the study of the principles basic to the physical properties of materials. Topics include applications and tooling for turning, milling, drilling machines along with techniques of testing and examination of materials.

Prerequisites/Corequisites: 1171. Lab fee charged.

7425 Human Factors Engineering

3-0-3

Includes considerations for human capabilities and limitations as they relate to the development and design of safe and efficient environments and products. Topics include human anatomy and sensory considerations for noise, lighting, fatigue and other stresses; person-machine factors, human behavior, skills and performance.

Prerequisites: None. No lab fee charged.

7426 Manufacturing Processes & Materials II

3-2-3

A continuation of Manufacturing Processes & Materials I where the various machine tools and manufacturing processes are integrated with the principles basic to the physical, mechanical and chemical properties of materials, machinability, castability, formability and weldability concepts

Prerequisites: 7416. Lab fee charged.

7430 Time and Motion Study

Principles of motion economy, tools for time and motion study - to include: process and operation charts, the movie camera, videotape, stop watch. Includes study and application of the basic principles used to develop better methods of performing work, and maintain audit and control functions, survey of standard data systems, implement cost reduction proposals.

Prerequisites: None. No lab fee charged.

7438 Industrial Engineering Concepts

2-2-3

Emphasis on principles of motion economy, efficient arrangement of production areas as to utilization of space, equipment and material flow analysis. Standard data systems, plant layout & material handling elements will be applied in planning and managing the manufacturing areas. Prerequisites: 1171 or 1191. No lab fee charged.

7440 Industrial Processes & Plant Layout

3-3-4

Project course with emphasis on the most efficient araangement of a production area and process arrangement to achieve effective utilization of space and equipment in manufacturing and service industries. Layout of aisles and use of cube space. To include layouts for small and medium size design, the characteristics of industrial processes and how instrumentation is used for process control. Analysis of sequences of Flow and/ or Assembly. Facilities audit.

Prerequisites: None. No lab fee charged.

7441 Quality Assurance/Statistical Process Control

4-2-4

Survey of various functions, concepts, responsibilities, as they apply to the areas of quality control. Applications of statistics and probabilities to basic quality control problems with emphasis on computer usage to aid in compiling of data. Programs written in areas of histograms, control charts and sampling.

Prerequisites: 1179. No lab fee charged.

7444 Manufacturing Process Planning

2-2-3

A course designed to enable the student to process a part/or product from raw to finish condition. Techniques include application of manufacturing processes, sequence of operations, fixtures, tooling, quality, quantity and cost as applied to the engineering drawing and specifications.

This course covers the high technology hardware involved with the totally automated factory. Numerical Control (NC), Computer Numerical Control (CNC), Distributive Numerical Control (DNC), Robotics, Flexible Manufacturing Systems (FMS), and other Computer Aided Manufacturing systems are discussed. Computer-Assisted part programming and group technology techniques are introduced.

Prerequisites: 1179 or 1193, 7030, 7144. No lab fee charged.

7450 Production Cost & Control

3-0-3

Development of cost estimation techniques, practical application of production cost theory, control of material and labor cost, overhead application, time requirements, estimation of production costs and impact of production mix on costs. Product life cycle analysis. Prerequisites: 7444, 7438. No lab fee charged.

7452 Industrial Hygiene Measurements

Sampling, measurement and calculations of air flow, heat, noise, gas oxygen, particulate, and toxic levels in the industrial environment. Survey of effects of toxics, noise, heat, particulate concentrations on the human body. Includes area ventilation, heat stress, noise characteristics, measurements. Use of selected instrumentation to establish compliance with standards set by governmental and industry groups. Prerequisites: 7409. No lab fee charged.

7454 CAD/CAM Project

3-2-4

A course designed to require the student to involve computer techniques in the planning and managing process of a design/manufacturing project. Cooperation with other technologies will be stressed toward a final solu-

Prerequisites: 7444, 7449. Corequisites: 7450. Lab fee charged.

7501 H.V.A.C. - Plant Maintenance

3-2-3

An introduction to the thermodynamic laws pertaining to refrigeration. The refrigeration cycle, operation, maintenance and troubleshooting of components including water towers, condensers, water treatment and refrigerants, copper pipe and tubing sizing, flaring, swaging, and soldering. Pump maintenance procedures, inspection and overhaul. Operation of boilers, oil burners, gas furnaces and heaters. General plant maintenance procedures.

Prerequisites: None. No lab fee charged.

7510 Elements of Refrigeration

Introduction to the field and terminology of refrigeration. Topics to include the basic laws of refrigeration, heat, and the methods of heat transfer, use and care of servicing tools, equipment, tubing, and fittings, compressors, refrigerants, temperature controls, special testing and service equipment. Laboratory sessions provide experience in basic service procedures.

Prerequisites/Corequisites: 1171 or 1191. No lab fee charged.

7520 Elements of Heating

Introduction to gas and oil furnaces and heat pumps. Topics include the fabrication, troubleshooting and servicing of these heating devices. Prerequisites: 7510, 7701. No lab fee charged.

7525 Introduction to HVAC Principles

3-2-3

An introduction to refrigeration, air conditioning and heating systems. Topics covered include: terminology, principles of refrigeration, the components of refrigeration systems, refrigerants, gas and oil burners, boilers, pumps and absorption systems.

Prerequisites: 1171. Corequisites: 1171 or 1191. No lab fee charged.

7530 Air Conditioning Principles I

3-2-3

Study of cooling tower, evaporating condensers, water treatment, air cooled condensers, refrigeration safety devices, crankcase heaters, water chillers, and pumps. Laboratory experience to emphasize equipment, maintenance and troubleshooting procedures. Prerequisites: 7510, 7702. No lab fee charged.

7531 Air Conditioning Applications

A survey of commercial and industrial applications of heating, refrigeration and air conditioning; ventilation; food preservation and storage; industrial processing; low temperature applications; comfort air conditioning applied to transportation vehicles, etc. The requirements, limitations and standards involved in the many applications are investigated. Prerequisites: 7510, 7530. No lab fee charged.

7532 Sheet Metal Layout & Fabrication

2-4-3

A study of some of the more common problems encountered during installation and modifications, particularly the mechanical and field fabrication problems involved in duct work, piping, and electrical work. Introduction to the use of sheet metal tools, edges, seams, locks, etc. Prerequisites: 7008. Lab fee charged.

7535 HVAC Sytems I

3-2-2

An introduction to the layout and control of air conditioning systems, energy considerations, fans and basic heat load calculations. Prerequisites: 1191, 7725. No lab fee charged.

7540 Air Conditioning Principles II

4-2-4

Basic principles of thermodynamics, cycle analysis, noise and vibration control, and pipe sizing are covered. Laboratory sessions allow the student to measure and perform cycle analysis of operating refrigeration systems, and verify noise and vibration calculations.

Prerequisites: 7530. No lab fee charged.

7541 Air Conditioning Design I

The application of air conditioning principles to design. Emphasis on selection of equipment, consideration of applicable codes, and functional handling of air conditioning design problems. Emphasis on design calculations, equipment selection and system layout for non-commercial structures.

Prerequisites: 7520. No lab fee charged.

7545 HVAC Systems II

3-2-3

The selection of inside design conditions with regards to economics and comfort, psychrometrics, noise and vibration, piping, and selection of equipment are covered.

Prerequisites: 1192. No lab fee charged. In not spling of this profes b

7547 Plumbing Systems Design

3-2-3

The design and layout of plumbing systems including: fixtures, traps, intercepting devices, water supply systems, drainage and vent systems, gravity flow, pipe sizing, air flow in vent piping, standard plumbing code regulations, zone control, and hot water systems. Prerequisites: 7138. No lab fee charged.

7550 Air Conditioning Principles III

3-2-3

Basic principles of commercial duct sizing, balancing air and hydronic systems, refrigerant pipe sizing, low temperature refrigeration, and first cost vs. operating costs are covered. Laboratory sessions allow student to measure and balance air and hydronic systems, design and connect control systems for low temperature refrigeration. Prerequisites: 7540, 7702. No lab fee charged.

7551 Air Conditioning Design II 3-3-4

Basic principles of commercial air conditioning load calculations, design and equipment selection. Includes equations and methods of calculation of external and internal building loads, ventilation requirements and solar loads. Laboratory sessions allow the student to calculate the load, select the equipment and layout the duct system for a commercial building. Prerequisites: 7540, 7541. Corequisites: 7550. No lab fee charged.

7552 Air Conditioning Controls

The theory and methods of controlling conditioned air systems. Types, functions and applications of controls for heating, cooling, humidity, and ventilation requirements. Laboratory sessions allow the student to make connection of systems components and simulate operational characteristics of electric, pneumatic and electronic control systems. Prerequisites: 7702, 7540. No lab fee charged.

7555 HVAC Sytems III

Calculation of the heating and cooling loads of buildings. Topics include heat losses and gains through the building envelope (due to temperature difference, color, and infiltration), zoning, thermal storage, people, lights, and power, and shading from adjacent structures. Prerequisites: 7545. No lab fee charged.

7557 Safety Systems Design

3-2-3

The design and layout of safety systems including: fire alarms, security and communication systems, smoke detectors, sprinkler systems, and computer monitoring systems for energy management. Prerequisites: 7016, 7708. No lab fee charged.

7700 Electrical Concepts

3-2-3

Designed for the student with limited formal background in electrical fundamentals. Introduces the concepts of electrical units, circuits and measurements; including series, parallel, series-parallel and basic inductance and capacitance concepts. A required course for all pre-engineering electrical technology majors.

Prerequisites: None. Corequisites: 1171 or 1191. No lab fee charged.

7701 Electrical Fundamentals I

3-2-3

Introduces the basic laws of AC and DC electricity and their applications. In addition power distribution, magnetic principles, control system fundamentals, component testing and troubleshooting are covered. Prerequisites: None, Corequisites: 1171 or 1191. No lab fee charged.

7702 Electrical Fundamentals II

4-2-4

A continuation of electrical Fundamentals I. AC power factor, polyphase

relationships, and control systems functions are examined in greater depth. Abilities of the student to plan, assist, and supervise electrical power, and control system installations, and modifications are developed.

Prerequisites: 7701, 1191 or 1171. No lab fee charged.

7703 Electrical Troubleshooting

3-3-4

Basic electrical theory; resistance and its measurement; voltage and its measurement; and current and its measurement; continually applied to control diagrams, circuits, and components. Also electromagnetism, transformers, available electrical power, control circuit functions, DC and 3 0 AC motors and components replacement with emphasis on safe troubleshooting and repair of power and control circuits.

Prerequisites: None. Lab fee charged.

7708 Electrical Fundamentals & Controls

A survey of the field of electrical/electronics controls. Topics to include basic circuit analysis, relay logic control (ladder diagrams), programmable controls, digital electronic devices and microprocessors.

Prerequisites: None. Corequisites: 1171 or 1191. No lab fee charged.

7710 DC Circuit Analysis

6-0-5

This course introduces the concept of electricity, including current, voltage, power and energy. Series, parallel, and series-parallel circuits will be covered along with application of these circuits. Also, network analysis and an introduction to capacitance will be studied.

Prerequisites: None. Corequisites: 1191 or 1172, 7711. No lab fee charged.

7711 D.C. Circuits Lab

0-3-1

Laboratory exercises, demonstrations, evaluations in the proper use of techniques and instruments commonly used by technicians in theory verification and troubleshooting of D.C. circuits. Major emphasis on power supplies, VOMs and VTVMs.

Prerequisites: None. Corequisites: 7710. No lab fee charged.

7712 Electrical Circuits I

6-0-5

This course introduces basic electrical concepts, laws, and devices, including: charge, direct and alternating current, voltage, resistance, capacitance, rectification, power, efficiency, Ohm's Law, and Kirchoff's Laws. Analysis and introduction to troubleshooting of direct current series, parallel, series-parallel, and comppplications of these circuits. Classroom lecture and exercises are supplemented by hands-on circuit projects.

Prerequisites/Corequisites: 1191 or 1172, 7713. Lab fee charged.

7713 Electrical Circuits I Lab

0-3-1

Laboratory exercises and evaluation in the proper use of techniques and instruments commonly used by electromechanical technicians. Includes safety considerations, schematic diagrams, capacitive time constants, soldering techniques, introduction to circuit fault analysis and troubleshooting, and protective devices.

Prerequisites/Corequisites: 7712. No lab fee charged.

7715 Electrical Fundamentals

4-2-4

An introduction to D.C. and A.C. circuit concepts, power distribution, and control circuitry. Including transformers, three phase systems, circuit protection, grounding, conductor sizing, power factor, switches, and relays.

Prerequisites: None. Coorequisites: 1171 or 1191. No lab fee charged.

7720 AC Circuit Analysis

6-0-

This course introduces inductance and covers capacitive and inductive time constants. AC signal generation, AC waveforms, reactance, impedance will be studied. Series, parallel and series-parallel A.C. circuits will be covered along with applications of these circuits including filters and resonance. Transformers will be introduced.

Prerequisites: 7710, 7711. Corequisites: 1192, 7721. No lab fee charged.

7721 A.C. Circuits Lab

0-3-

Laboratory exercises, demonstrations, and evaluations in the proper use of techniques and instruments commonly used by technicians in theory-verification and troubleshooting of A.C. circuits. Major emphasis on oscilloscopes, signal generators and VTVMs.

Prerequisites: 7710, 7711. Coorequisites: 7720. No lab fee charged.

7722 Electrical Circuits II

6-0-

This course is a continuation of 7712, Electrical Circuits I. Introduces magnetism, inductance, alternating current (AC) wafeforms, reactance, impedance, phasor analysis of AC series, parallel, and series-parallel circuits, AC power, resonance, filters, transformers, and three-phase AC systems. Emphasis will be placed on applications and troubleshooting. Classroom lecture and exercises are supplemented by hands-on circuit projects. Prerequisites: 7712, 7713, 7710, 7711. Corequisites: 1192, 7723. Lab fee charged.

7723 Electrical Circuits II Lab

0-3-1

Laboratory exercises and evaluation in the proper use of techniques and instruments commonly used by electromechanical technicians. Includes safety considerations, use of oscilloscope, use of signal generator and measuring instruments, inductive time constants, resonance, frequency response, filters, rectifier and power supply circuits, transformers, three-phase systems, and introduction to the National Electric Code.

Prerequisites: 7712, 7713 or 7710, 7711. Corequisites: 7722. No lab fee charged.

7727 Programming in "C"

3-3-4

The purpose of this course is to introduce the student to the "C" language. Emphasis is given to procedure development and pseudo code solutions. Attention given to the development of tasks, software modules, and procedures for computer solutions. Discussions include: variable types, loops, branching and testing, simple I/O and file I/O, structures and development of libraries.

Prerequisites: 7728. Corequisites: 7738. Lab fee charged.

7728 Introduction to Digital Concepts

3-2-3

Number systems, codes and review of Boolean Algebra. Logic families, logic simplification methods and implementation of logic equations using NAND and NOR gates and Flip-flops.

Prerequisites/Corequisites: 1191 or 1172; 7708 or 7710. No lab fee charged.

7730 Electronics I

6-3-5

Semiconductory theory, pn junctions, diodes, Zener diodes, light emitting diodes, rectifier circuits, power supply filtering, regulators, clippers and clampers, SCR, Triacs, basics of operational amplifiers and negative feedback, inverting and non-inverting amplifiers, comparators, differentiators and integrators.

Prerequisites/Corequisites: 7720, 7721; or 7722, 7723. No lab fee charged

7733 Electronic Troubleshooting

3-2-3

Developing systematic analysis and troubleshooting techniques. Electronic device/circuit principles, analysis, failures and corrections. Possible modification of circuits and device specifications are studied to increase circuit reliability.

Prerequisites: None. Corequisites: 7730. No lab fee charged.

7736 Electrical Power Systems

4-2-4

Covers the articles of the National Electrical Code which apply to electrical systems. Transformer principles and 3 phase systems. Also covers overcurrent devices, conductors, grounding, wiring methods, branch circuits, service entrances, load calculations and special topics.

Prerequisites: 7708. No lab fee charged.

7738 Digital Systems I

3-3-4

Includes edge triggered circuitry: J-K flip-flops, Sync and Async Counters, shift registers, clock circuits, monostable theory. Also encoders, decoders, multiplexing (time base) displays. Circuit design techniques using MSI ICs will be discussed.

Prerequisites: 7728. Corequisites: 7720. Lab fee charged.

7740 Electronics II

4-2-4

Waveform generators, precision rectifiers, differential, instrumentation and bridge amplifiers, active filters, bipolar transistor theory, bipolar switch, bipolar biasing circuits.

Prerequisites: 7730. No lab fee charged.

7742 Computer-Aided Drafting (Electrical)

2-3-3

An introduction to computer-aided design and drafting for electrical engineering based technologies. Use of computer graphics to create, store, copy, and alter schematic designs. Schematic capture, circuits simulation, printed circuit board layout, artwork generation, component libraries, bill of materials, cost, and related data for analysis of circuit designs.

Prerequisites: 7030, 7738. Lab fee charged.

7743 Communication Systems I

4-2-4

A basic course covering many of the various types of communications systems including AM, FM, TV space and mobile systems. The course combines many of the circuit building blocks from previous courses into receiving and transmitting systems. The study will include tuned RF amplifiers, oscillators, mixers, amplitude and frequency modulation, AM and FM detection, wave propagation, TV systems, antennas, and simple broadcasting station requirements.

Prerequisites: 7730. No lab fee charged.

7747 Computer Instrumentation

2-2-3

This course is an introduction to basic transducers. In this course students will apply analog-to-digital techniques to sensors for the purpose of creating data acquisition systems. The course also includes types of sensor-computer integration for the purpose of creating intelligent standalone

sensors. Students will construct sensor-computer interfaces and write software to acquire sensor data. Course also includes techniques for manipulation of acquired data such as integration and differentiation. Prerequisites: 7727, 7748. No lab fee charged.

7748 Digital Systems II

3-3-4

Microprocessor Hardware: Includes memories, RAMS, ROMS, PROMS, and E-PROMS, also ALU units with A/D and D/A conversions. Course continues with microprocessors, microcomputers, architecture, CPU, and bus structures. Application of microprocessor will be discussed interfacing with laboratory systems. Prerequisites: 7738. Lab fee charged.

7749 Biomedical Instrumentation I 3-2

3-2-3

Covers basic medical instrumentation and the role of the BMET in the hospital. To include: man to machine interface, medical terminology, hospital organization, heart and circulatory system, electrodes, transducers, bioelectric amplifiers, EKGs, mechanical recorders, ICUs and CCUs, electrical safety, and electro-surgery units.

Prerequisites: 4012, 7730, 7738. No lab fee charged.

7750 Electronics III

Class A small signal and power amplifiers, class B amplifiers, field effect transistors, FET biasing, FET amplifiers, frequency response of amplifiers. Prerequisites: 7740. No lab fee charged.

7753 Communication Systems II

This course covers the analysis and design of circuitry required for communications systems including tuned circuits, phase locked loops, AM-FM and pulse detectors, modulators, linear amplifiers, power amplifiers, transmitters, receivers, transmission lines, wave guides, microwave transmissions, antennas, radar and facsimile. Prerequisites: 7743. No lab fee charged.

7755 Electrical Estimating

Blueprint reading take-off techniques, specifications, estimating procedure, unit pricing, pricing sheets, summary sheets, proposals, checking methods, computerized estimating techniques. Prerequisites: None. No Lab fee charged.

7756 Power Generation & Transmission

Survey of coal, oil, nuclear, and hydroelectric generation; circuit constants, assemblies of power system components, load flow studies, transients, power limits for stability, faults on power systems, instrumentation, relays and interrupting devices, insulation, tower design, and effective grounding techniques.

Prerequisites: None. No lab fee charged.

7758 Motors & Controls

3-3-3

Fundamentals, applications and selection of DC and 30/ AC motors including speed torque characteristics, horsepower and efficiency calculations. Relay, static, and programmable control circuits emphasizing equipment and personal protection, across the line starting, acceleration methods, speed control, reversing, plugging, sequencing, counting, breaking, and jogging will be analyzed, constructed, designed and diagnosed for improper operation.

Prerequisites: 7722, 7723; or 7702, 7721; or 7702, 7708; 7728. No lab fee charged.

7759 Biomedical Instrumentation II 3-2-3

Course presents a survey of the more complex and specialized medical devices used for patient care and diagnosis. Advanced equipment malfunction isolation and test instrumentations are presented. Maintenance management including records, stock level optimization, shop layout, forms and technician duties is discussed. Consideration is given to the ethics related to biomedical equipment servicing. Prerequisites: 7749. No lab fee charged.

3-2-3

This course will discuss the various topics and methods of computer communications. The course will deal with the following topics: local and global micro busses, parallel communications, async vs. sync communications, serial communication standards, modems, networking techniques, fiber optic systems.

Prerequisites: 7768, 7727, 7747. No lab fee charged.

7768 Digital Systems III

Microprocessor software. Course develops machine language and assembly language programming for an 8-bit microprocessor system. Machine instruction sets will be discussed. Use of programmable peripheral chips will be included. Course develops applications software. Prerequisites: 7748. Lab fee charged.

7760. Peal Time Applications

3-3-4

This course deals with the problems of programming for real time control. Discussions will include: interrupt driven tasks, timed control of tasks and data acquisition, introduction to real time operating systems, methods for writing software to respond to multiple interrupts, techniques for generating ROM based code and standalone systems.

Prerequisites: 7747, 7768. Corequisites: 7757. No lab fee charged.

7799 Special Problems Seminar-Electrical Var-Var-2/4 Individual Study and special projects pertaining to the particular technology that the student is enrolled in. The study may deal with an idea or concept normally not covered by existing courses at the College, or with a specific problem found in the industry in which the student is employed. Open to fourth and fifth term students by special arrangement with the program coordinator and divisional coordinator of academic affairs. Prerequisites: None. No lab fee charged.

7810 Welding Skills

Basic gas welding. Safe and correct methods of assembling and operating of welding equipment. Introduces the student to joining of metals based on fusion, diffusion, chemical and mechanical methods. Specific laboratory work will involve the oxyacetylene cutting, heating, soldering, brazing, and welding skills.

Prerequisites: None. Lab fee charged.

7811 Welding Processes & Techniques 3-3-4

Introduction to the use and technical aspects of basic and oxy-fuel welding processes. Studies are made of various welding process factors such as heat, polarity, electrode application. Laboratory experience to include joining of mild steel. Gas metal arc welding (MIG welding) theory and application are also introduced. The American Welding Society designation of GMAW, OAW, and SMAU apply to this course. Prerequisites: None. Lab fee charged.

7901 Energy Management and Alternatives 3-0-3

Methods of evaluating and solving energy usage problems - particularly in residential homes. Coverage includes: structural energy usage analysis, lifestyle management, problem-solving methods showing retrofits and alterations of existing systems as well as new applications. Alternate energy options including solar and wind energy. Prerequisites: None. No lab fee charged.

7910 Surveying Measurements 3-3-3

Introductory course in field measurement techniques, with emphasis on units of measurement, field note format, instrument usage, differential leveling, 3-wire leveling, profiles, cross sections, taping, E.D.M. usage, horizontal and vertical angles, bearings and azimuths. Prerequisites: 1171 or 1191. No lab fee charged.

7911 Introduction to Construction 3-1-3

Introduces the student to the construction industry analyzing the contractual relationships between the owner, architect/engineer, and contractor. Introduces the materials and methods of construction through the perspective of the CSI format. Material investigated include wood, concrete, masonry, and steel. Methods investigated include light framing, masonry, steel frame, and reinforced concrete.

Prerequisites: None. No lab fee charged.

7912 Survey of Construction 3-0-3

3-0-3

A survey of the construction industry to include the following topics: management in construction, contracting methods, contracts and specifications, estimating, scheduling, construction methods and materials, blueprint reading, and surveying. blueprint reading, and surveying.

Prerequisites: None. No lab fee charged.

7920 Surveying Calculations

Intermediate course in surveying calculations, with emphasis on traverse closures and adjustments, coordinate calculations, area determination by D.M.D. and coordinates, coordinate geometry, direct and inverse routines D.M.D. and coordinates, Coordinate and "COGO" Computer Program.

Prerequisites: 7910. No lab fee charged.

3-3-

Advanced course in the elements of route surveying, with emphasis on design and layout of horizontal curves, vertical curves, and spiral transition curves, calculation of super-elevation, construction and staking. Prerequisites: 7920, 7032. No lab fee charged.

7931 Light Construction and abulant not busined to edgot in 3-3-3

Forest products and their characteristics, carpentry, roofing, etc.; footings; foundations; bracing; retaining walls; construction material and methods; lightweight steel construction. Prerequisites: 1192. No lab fee charged.

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7934 Statics (CIVIL)

3-2-3

A continuation and application of principles of physics to engineering analysis. Topics of instruction are limited to force analysis applied to civil engineering structures and to static friction. Course objectives are accomplished through lecture, visual aids, example calculations, literature references, and handouts.

Prerequisites: 1192, 2292. No lab fee charged.

7935 Computer Applications (Civil)

3-2-3

Application software usage, with emphasis on word processing, spreadsheets, and data bases with application to Civil Engineering Technology

Prerequisites: 1192, 7032, 7920. No lab fee charged.

7940 Elements of Land Surveying

Advanced course in the elements of boundary surveys, with emphasis on document research, deed descriptions, U.S. public lands survey system, Ohio land subdivisions, legal aspects of land surveys. Prerequisites: 7920. No lab fee charged.

7941 Heavy Construction

Design principles and construction techniques involving buildings constructed with heavy timber, steel, concrete, or a combination of these materials. Emphasis on commercial and industrial buildings including multi-level structural installations, piles, caissons, and retaining walls. Prerequisites: None. Corequisites: 7945. No lab fee charged.

7943 Estimation and Inspection

Development of skills in estimation amount and cost of labor and materials for various types of construction. Prerequisites: 1191. No lab fee charged.

7944 Strength of Materials (CIVIL)

An introductory course in the application of statics to the properties of materials used in Civil Engineering structures. Topics will include Hooke's Law, temperature effects, welds, biaxial stress conditions, combined stress and prestressed beams. Course objectives are accomplished through lecture, demonstration, example calculations, case studies, literature references, and extensive handouts.

Prerequisites: 1191, 7934. Corequisites: 7945. No lab fee charged.

7945 Structural Design I

3-2-3

A design course in which the principles of statics are applied to analysis and design of simple structures. Topics of instruction include space frames, shear and moment diagrams, beam analysis and design, and beam deflection. Course objectives are accomplished through lecture, visual aids, example calculations, literature references, and handouts. Prerequisites: 1191, 7934. Corequisites: 7944. No lab fee charged.

7947 Drainage Control Systems

An introductory course in the design of drainage conduits for removal of storm runoff. Analysis of hydrologic problems by the rational method. Study of open channels, median swales, culverts, gutters and pipe networks. Emphasis will be on control of erosion and sedimentation. Course objectives are accomplished through lecture, visual aids, example calculations, case studies, and extensive handouts. Prerequisites: 1191. No lab fee charged.

7948 Subdivision Design

3-2-3

Analysis of the elements in site development, including subdivision and zoning regulations; construction of streets, gutters, water and sewerage systems and earthwork.

Prerequisites: 7910, 7925. No lab fee charged.

7950 Surveying Field Project

Specialized project utilizing fundamental theories and standard practices involved in surveying. To include courthouse research, field reconnaissance and measurements, resolution, platting and astronomic observations.

Prerequisites: 7930, 7940. No lab fee charged.

7953 Construction Management and Operation

An analysis of a contractor's operation from the initial purchase of land to the completion of a project. Contractor's relationship with the architect, engineer, client, and public agencies. Planning coordination, progress charts, and subcontracts are emphasized.

Prerequisites: None. No lab fee charged.

7954 Structural Design II

A course presenting the fundamentals of statics to reinforce concrete design. Topics of instruction include the ACI Strength Method of reinforced concrete design, and the Moment Distribution method of analysis for statically interminate structures. The laboratory presents the ACI weight proportioning method of mix design, an introduction to superplasticizers, and the use of steel fibers. Course objectives are accomplished through lecture, example calculations, literature references, laboratory experience, and extensive handouts. Prerequisites: 7944, 7945, 1192. No lab fee charged.

7955 Soils Engineering Technology

This course is an introduction to the properties of soil as a material used in

construction. Topics of instruction will include routine laboratory tests, soil classification, compaction, slope stability, soil strength and geotextile materials. Course objectives are accomplished through lecture, laboratory experience, example calculations, case studies, literature references, and extensive handouts.

Prerequisites: 1192, 7934. No lab fee charged.

7957 Environmental Engineering Technology

An introductory overview of environmental concerns seen from the perspective of engineering technology. The course is built on an environmentalist's concern for public health and safety. Much of the course content is built upon the work of the Environmental Protection Agency, but is also supplemented by reasoned critiques of their efforts. Major topics of study include solid and hazardous waste, and potable and wastewater treatment. Course objectives are accomplished through lecture, field trips, laboratory demonstration, visual aids, case studies, literature references, and extensive handouts.

Prerequisites: 7947. No lab fee charged.

7958 Control Surveying

Introduction to control surveying. Topics of instruction include: state plane coordinates, astronomic observations, control surveying standards and techniques, total stations and data collectors, computer calculations and graphics, and aerial photogrammetry control.

Prerequisites: 7920, 7930, 1192. No lab fee charged.

7961 Introduction to Hazardous Waste Management An introductory course exploring the current practices and problems associated with management of hazardous substances. Several case histories will be presented. Discussion will focus on how past and current practices may adversely affect human health. Legislative efforts to regulate exposure, promote conservation and clean-up existing sites will be summarized. The importance and techniques of citizen involvement will be stressed.

Prerequisites: None. No lab fee charged.

7999 Special Problems Seminar - Civil Var-Var-2/4

Individual and independent study and special projects pertaining to the particular technology in which the student is enrolled. The study may deal with an idea or concept normally not covered by existing courses at the College, or with a specific problem found in the industry in which the student is employed. Open to fourth and fifth term students, by special arrangement with the program coordinator and divisional coordinator of academic affairs.

Prerequisites: None. No lab fee charged.

Learn to perform ground engine run-up and flight control movement check and taxi procedure. Learn aircraft physical laws and perform numerical computations including aircraft weight and balance calcula-

Prerequisites: None. No lab fee charged.

8101 Machine & Hand Tools

8100 Aircraft Orientation

1-4-3

Identify and select proper hand tools for particular applications. Hand form, layout and bend sheetmetal. Perform precision measurements. Prerequisites: None. Lab fee charged.

8102 Basic Aerodynamics & FAA Regulations

Complete required maintenance forms, records and inspection report. Select and use FAA and manufacturer's aircraft maintenance specifications, data sheets, manuals, publications and related Federal Aviation Regulation Lift, thrust and drag. Stability of aircraft. Prerequisites: None. No lab fee charged.

8106 Engineering Graphics (Aviation)

2-2-2

Read drawings, symbols and schematic diagrams. Draw sketches of repairs and alterations. Apply blueprint information. Use graphs and

Prerequisites: None. No lab fee charged.

8107 Materials & Processes

Identify and select aircraft hardware and materials. Perform precision measurements. Perform penetrate, chemical etching, and magnetic particle inspections. Identify and select appropriate nondestructive testing methods. Perform basic heat-treating processes. Inspect and check welds. Fabricate and install rigid and flexible lines and fittings. Prerequisites: None. Lab fee charged.

8108 Aircraft Electricity

3-2-3

Repair aircraft electrical system components. Install, check and service airframe electrical wiring, controls, switches, indicators, and protective devices. Clean, inspect and service aircraft batteries. Read and interpret aircraft electrical wiring diagrams.

Prerequisites: 2221. No lab fee charged.

8109 Cleaning & Corrosion Control

2-3-3

Identify and select cleaning materials. Perform aircraft cleaning and corrosion control. Protect interior surfaces of closed steel and aluminum tubing against corrosion. Remove corrosion products. Use paints and similar organic coatings for corrosion protection purposes. Prerequisites: None. No lab fee charged.

8130 Airframe Structures I

Identifying of wood defects, inspect wood structures, service and repair wood structures, fabric and fiberglass covering materials. Trim, lettering and touch-up paint; cleaning and corrosion controls, inspect and identify

Prerequisites: 1191, 2291, 8102. Lab fee charged.

8131 Welding Processes

To include soldering, brazing and gas arc-welding steel. Fabrication of tubular structures, soldering of stainless steel, welding stainless steel and aluminums, magnesium and titanium. Inspect and check welds. Prerequisites: 8102, 8107. Lab fee charged.

8132 Airframe Electrical & Generating Systems 5-5-5

Repair aircraft electrical system components. Install, inspect, check, troubleshoot, service, and repair alternating current and direct current electrical systems. Service compound and shut generators, alternators, starters, and starter-generators. Check and adjust generating output regulation. Repair and/or replace fuses, circuit-breaker, switches, high and low tension wiring, terminals and terminal blocks, magnetic switches and trans-

Prerequisites: 8102, 8108. No lab fee charged.

8140 Airframe Structures II

Install special rivets and fasteners. Inspect bonded structures. Inspect and repair plastics, honeycomb and laminated structures. Inspect and repair sheet metal structures. Hand form, layout, bends sheet metal and install conventional rivets. Flush riveting. N.A.G.A. riveting, highshear rivets, cherry lock rivets. Prerequisites: 8130. No lab fee charged.

8141 Airframe Fuel Systems

Inspect, check and repair pressure fueling, transfer, defueling, and dump systems. Repair of fuel systems components. Inspect, check, service, troubleshoot, and repair aircraft fuel systems. Inspect, check, service, troubleshoot, and repair powerplant fuel systems. Prerequisites: 8130. No lab fee charged.

8142 Assembly & Rigging

Rig fixed-wing aircraft. Assemble, balance and rig aircraft and control surface. Using inspection forms, perform a 100 hour inspection. Perform check of aircraft pertaining to specifications and A.D. note compliance. Make repairs and adjustments found to be necessary during inspection. Check and perform weight and balance of aircraft.

Prerequisites: 1191, 8107. Lab fee charged.

8143 Airframe Hydraulic & Pneumatic Systems

Repair hydraulic and pneumatic power system components. Inspect, check, service, troubleshoot and repair hydraulic and pneumatic power

Prerequisites: 1191, 2292. No lab fee charged.

8150 Instrumentation, Communication, Navigation and **Utility Systems**

5-5-5

Installation, marking, swinging of instruments. Testing of pilot and static air systems and filter systems. Install and check pressure, vacuum, mechanical instruments. Inspect, check and service autopilot, approach control and communication and navigation systems. Inspect and repair antenna and electronic equipment. Inspect, check and service speed and take-off warning system electrical brake controls, anti-skid system and carbon monoxide detection systems. Inspect, check and service ice and rain control system. Inspect, check, troubleshoot, service and repair landing gear position and warning system and aircraft fire detection and extinguishing systems. Prerequisites: 8107, 8140, 8108, 8143. No lab fee charged.

8151 Airframe Systems, Hydraulic & Pneumatic Landing

3-7-5 Gear

Inspect, check, service and repair landing gear. Retraction systems, shockstruts, brakes, wheels, tires and steering systems. Inspect, check and service of warning systems of anti-skid electrical brakes. Controls, landing gear position indicating and warning systems. Prerequisites: 8143. No lab fee charged.

8152 Flightline Maintenance

Identify and select cleaning materials, perform cleaning and corrosion control, protect battery compartment. Move aircraft employing hand signals and tie down aircraft. Perform airframe and powerplant conformity and airworthiness inspection.

Prerequisites: 8141, 8142. Corequisites: 8150, 8151. No lab fee charged.

8155 Airframe Comprehensive 1 and 10 to 12 and 10 a

A comprehensive study and review of all the required subjects and subject material preparing the student for the Comprehensive Examination; demonstrating the proficiency required to be awarded the degree and be named a candidate for the Federal Aviation Agency written test. Prerequisites: All general & airframe courses. No lab fee charged.

8160 Powerplant Theory & Maintenance I

Introduction to the design, manufacture, overhaul, and repair of piston engines. Overhaul of an opposed engine. Inspect and repair a 14-cylinder or larger radial piston engine.

Prerequisites: 1172 or 1191, 2291, 8102. No lab fee charged.

8161 Powerplant Lubrication based and all old anoid assistant 4-3-4

Identify and select proper lubricants. Inspect, check, service, troubleshoot and repair powerplants.

Prerequisites: 2292, 8102. No lab fee charged.

8162 Propellers

Inspect, check, service, and repair propeller synchronizing and ice control systems. Identify and select propeller lubricants. Balance propellers. Repair propeller control system components. Inspect, check, service, and repair fixed pitch constant speed and feathering propellers and propeller governing systems. peller governing systems. Prerequisites: 1191, 2291, 8102. No lab fee charged.

8170 Powerplant Theory & Maintenance II 5-5-5

Inspect and repair reciprocating engines. Inspect, check service and repair opposed and radial engines and reciprocating engine installations. Prerequisites: 8160. No lab fee charged.

8171 Powerplant Fuel Metering Systems I

Inspect, check and service water injection systems. Overhaul a carburetor. Repair fuel metering components. Inspect, check, service, troubleshoot and repair reciprocating carburetor systems and induction manifolds. Inspect, check, troubleshoot, service and repair reciprocating fuel injection systems. Prerequisites: 8160. No lab fee charged.

8172 Ignition Systems

Overhaul magneto and ignition harness. Repair engine ignition system components. Inspect, check, service, troubleshoot and repair powerplant ignition systems.

Prerequisites: 8160. No lab fee charged.

8180 Engine Systems & Inspection Inspect, check, troubleshoot, service and repair engine induction cooling exhaust and electrical systems and components. Prerequisites: 8160, 8170. Corequisites: 8183. No lab fee charged.

8182 Engine Instruments & Fire Protection

Install, check and service engine electrical wiring, controls, switches, indicators, and protective devices. Inspect, check, service, troubleshoot and repair engine temperature, pressure and RPM.

Prerequisites: 8160, 8170. Corequisites: 8183. No lab fee charged.

8183 Powerplant Theory & Maintenance

5-5-5

Install, troubleshoot and remove reciprocating engines. Overhaul turbine engines, inspect, check, service and repair turbine engine installations. Remove, install and troubleshoot turbine engines. Prerequisites: 8160, 8170. No lab fee charged.

8185 Powerplant Comprehensive

A comprehensive study and review of all the required subjects and subject material preparing the student for the Comprehensive Examination; demonstrating the proficiency required to be awarded the degree and be named a candidate for the Federal Aviation Agency written test.

Prerequisites: All general and powerplant courses. No lab fee charged.

8190 Aviation Make-Up

Opportunity for students to make-up N.A.A. required time. Laboratory, written or reading requirements or extra time on lab projects will be performed during this time.

Prerequisites: None. No lab fee charged.

9000 Career Development

A small group, self development approach to career choice and development. This course will help the student to gain better self-understanding through the exploration of personal interests and aptitudes as they relate to career demands. The student will acquire skills in communications, establishing career goals and making decisions. Emphasis on job seeking techniques, the job application, the resume, the interview. Activities will include testing, group interaction exercises, guest lectures, and review of

pertinent literature.

Prerequisites: None. Lab fee charged.

9005 College Success Strategies for Returning Adults 2-0-2

Are you afraid of failure; are you unsure about your career and personal goals; are you concerned about the adequacy of your acedemic and study skills for college success? We have an answer for coping with those fears and uncertainties. Beginning in the June term we will be offering a new class, "College Success Strategies", tailored to meet the needs of the adult student, to provide valuable support and dispel those crippling fears. This course will help you to learn more about yourself and your skill potential and will include: library skills, values and goal setting, college support services, career exploration, decision making, taking control of your life, study skills, time management, self-esteem and confidence building activities, as well as skill assessment in math, English and reading. Prerequisites: None. No lab fee charged.

9200 Professional Practices

1-0-0

The purpose of this course is to prepare the students for the interview process, heighten the students' awareness of the work environment, and provide skills which will ensure the students' success as a professional. Prerequisites: None. No lab fee charged.

9201 Cooperative Employment 4-40-3

Usually on an alternating term basis, the business student is placed on a full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Participation in a cooperative employment seminar and related instructional assignments equivalent to thirty (30) to forty (40) class hours per term is required to earn co-op credit.

Prerequisites: None. No lab fee charged.

9202 Cooperative Employment

4-40-3

Usually on an alternating term basis, the business student is placed on a full-time (32-40) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Participation in a cooperative employment seminar and related instructional assignments equivalent to thirty (30) to forty (40) class hours per term is required to earn co-op credit.

Prerequisites: None. No lab fee charged.

9203 Cooperative Employment

4-40-3

Usually on an alternating term basis, the business student is placed on a full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties op the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Participation in a cooperative employment seminar and related instructional assignments equivalent to thirty (30) to forty (40) class hours per term is required to earn co-op credit.

Prerequisites: None. No lab fee charged.

9204 Cooperative Employment

3-40-3

Usually on an alternating term basis, the business student is placed on a full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Participation in a cooperative employment seminar and related instructional assignments equivalent to thirty (30) to forty (40) class hours per term is required to earn co-op credit.

Prerequisites: None. No lab fee charged.

9205 Cooperative Employment

3-40-2

Usually on an alternating term basis, the business student is placed on a full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Participation in a cooperative employment seminar and related instructional assignments equivalent to thirty (30) to forty (40) class hours per term is required to earn co-op credit.

Prerequisites: None. No lab fee charged.

9301 Cooperative Employment

1-40-3

Usually on an alternating term basis, the health student is placed on a fulltime (32-40 hour) job that ideally relates to his or the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Participation in a cooperative employment seminar and related instructional assignments equivalent to five to ten class hours per term is required to earn co-op credit.

Prerequisites: None. No lab fee charged.

9302 Cooperative Employment

Usually on an alternating term basis, the health student is placed on a fulltime (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Participation in a cooperative employment seminar and related instructional assignments equivalent to five to ten class hours per term is required to earn co-op credit.

Prerequisites: None. No lab fee charged.

9303 Cooperative Employment

Usually on an alternating term basis, the health student is placed on a fulltime (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Participation in a cooperative employment seminar and related instructional assignments equivalent to five to ten class hours per term is required to earn co-op

Prerequisites: None. No lab fee charged.

9304 Cooperative Employment

Usually on an alternating term basis, the health student is placed on a fulltime (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Participation in a cooperative employment seminar and related instructional assignments equivalent to five to ten class hours per term is required to earn co-op credit.

Prerequisites: None. No lab fee charged.

9305 Cooperative Employment

Usually on an alternating term basis, the health student is placed on a fulltime (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Participation in a cooperative employment seminar and related instructional assignments equivalent to five to ten class hours per term is required to earn co-op credit.

Prerequisites: None. No lab fee charged.

9401 Cooperative Employment/Engineering Technologies 1-40-3 Usually on an alternating term basis, the engineering technology student is placed on a full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work.

With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Adherence to engineering technologies division co-op policies and procedures required to earn credit.

Prerequisites: None. No lab fee charged.

9402 Cooperative Employment/Engineering Technologies 1-40-3
Usually on an alternating term basis, the engineering technology student is placed on a full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Adherence to engineering technologies division co-op policies and procedures required to earn credit.

Prerequisites: None. No lab fee charged.

9403 Cooperative Employment/Engineering Technologies 1-40-3
Usually on an alternating term basis, the engineering technology student is placed on a full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Adherence to engineering technologies division co-op policies and procedures required to earn credit.

Prerequisites: None. No lab fee charged.

9404 Cooperative Employment/Engineering Technologies 1-40-2 Usually on an alternating term basis, the engineering technology student is placed on a full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Adherence to engineering technologies division co-op policies and procedures required to earn credit.

Prerequisites: None. No lab fee charged.

9405 Cooperative Employment/Engineering Technologies 1-40-2
Usually on an alternating term basis, the engineering technology student is placed on a full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Adherence to engineering technologies division co-op policies and procedures required to earn credit.

Prerequisites: None. No lab fee charged.

9501 Cooperative Employment 1-40-3

Usually on an alternating term basis, the ornamental horticulture student is placed on a full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Participation in a cooperative employment seminar and related instructional assignments equivalent to thirty (30) to forty (40) class hours per term is required to earn co-op credit.

Prerequisites: None. No lab fee charged.

9502 Cooperative Employment 1-40-3

Usually on an alternating term basis, the ornamental horticulture student is placed on a full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Participa-

tion in a cooperative employment seminar and related instructional assignments equivalent to thirty (30) to forty (40) class hours per term is required to earn co-op credit.

Prerequisites: None. No lab fee charged.

9503 Cooperative Employment 1-40-3

Usually on an asis, the ornamental horticulture student is placed on a full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous owledge and skills acquired in each school term. Participation in a cooperative employment seminar and related instructional assignments equivalent to thirty (30) to forty (40) class hours per term is required to earn co-op credit.

Prs: None. No lab fee charged.

9504 Cooperative Employment 1-40-2

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Prerequisites: None. No lab fee charged.

9601 Cooperative Employment Physical Sciences/Mathematics Division

1-40-3

Usually on an alternating term basis, the Math/Science Technology student is placed on full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make praskills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Adherence to Math/Science Technologies Division co-op policies and procedures required to earn credit. Prerequisites: None. No lab fe charged.

9602 Cooperative Employment 1-40-3 Physical Sciences/Mathematics Division

Usually on an alternating term basis, the Math/Science Technology student is placed on full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Adherence to Math/Science Technologies Division co-op policies and procedures required to earn credit.

Prerequisites: None. No lab fee charged.

9603 Cooperative Education Sciences/Mathematics Division

1-40-

Usually on an alternating term basis, the Math/Science Technology student is placed on full-time (32-40 hour) job that ideally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student ideally is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Adherence to Math/Science Technologies Division co-op policies and procedures required to earn credit.

Prerequisites: None. No lab fee charged.

9604 Cooperative Education Sciences/Mathematics Division

1-40-2

Usually on an alternating term basis, the Math/Science Technology student is full-time (32-40 hour) job that relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Adherence to Math/Science

Technologies Division co-op policies and procedures required to earn credit.

Prerequisites: None. No lab fee charged.

Cooperative Education Sciences/Mathematics Division

Usually on an alternating term basis, the Math/Science Technology student is placed on full-time (32-40 hour) job that relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student is able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Adherence to Math/ Science Technologies Division co-op policies and procedures required to earn credit.

Prerequisites: None. No lab fee charged.

1-40-3 9701 Cooperative Employment

Usually on an alternating term basis, the Technical Writing/Editing Technology student is placed on a full-time (32-40 hour) job that relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student should be able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Adherence to Communication Skills/Social Sciences Division co-op policies and procedures required to earn credit.

9702 Cooperative Employment

Usually on an alternating term basis, the Technical Writing/Editing Technology student is placed on a full-time (32-40) job that relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student should be able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Adherence to Communication Skills/Social Sciences Division co-op policies and procedures required to earn credit.

Prerequisites: None. No lab fee charged.

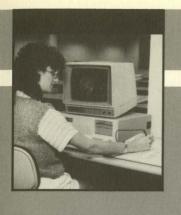
9703 Cooperative Employment 1-40-3

Usually on an alternating term basis, the Technical Writing/Editing Technology student is placed on a full-time (32-40 hour) job that relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student should be able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Adherence to Communication Skills/Social Sciences Division co-op policies and procedures required to earn credit. Prerequisites: None. No lab fee charged.

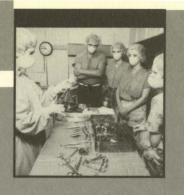
9704 Cooperative Employment

Usually on an alternating term basis, the Technical Writing/Editing Technology student is placed on a full-time (32-40 hour) job that relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquired in his or her class work. With each succeeding co-op term, the student should be able to assume more responsibility and perform higher level duties on the job because of what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Adherence to Communication Skills/Social Sciences Division co-op policies and procedures required to earn credit. Prerequisites: None. No lab fee charged.

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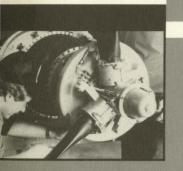












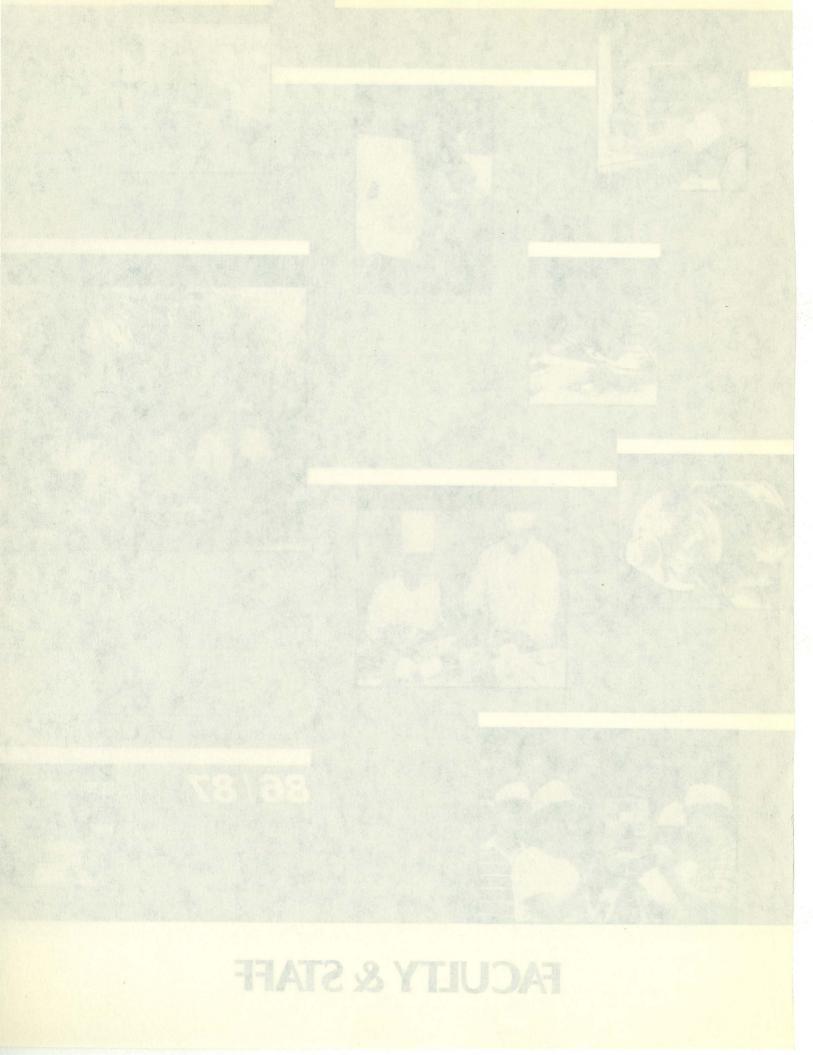


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M.S., University of Cincinnati	B.S., Franklin University
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and purply in a purple is a purple of the sound of the so	Business Technologies Division
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Capal, David	Certificate, Parks College of St. Louis University
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B.S.M.E.T., University of Cincinnation of the stressing and and an arrangement of the stressing and arrangement of the stressing arrangement of t	Engineering Technologies Division
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B.S., University of Cincinnati Viciovinu state nagurotty (2.14)	Respiratory Therapy Program
M.Ed., University of Cincinnati	disonion D to viv Jewish Hospital
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B.A., College of New Rochelle Christen, Ellen, M.T. (ASCP) Clinical Adjunct Instructor,	Social Sciences Division
Medical Laboratory Technician Program	B.S., Ohio State University
	M.A., Ohio State University wiletevinU place oidO . A. 8
B.S., Wright State	Duffy, Robert Adjunct Instructor, Physical Sciences/
Clark, Rosemary V., R.R.A Coordinator,	Mathematics Division
Health Technologies Division	B.S., Xavier University
B.A., Edgecliff College	M.Ed., University of Cincinnati
M.A., Xavier University	Dyer, Pamela, M.T. (ASCP) Clinical Adjunct Instructor,
R.R.A., St. Louis University	equies lords bus abit A la Medical Laboratory Technician Program
Coad, Mark Adjunct Instructor, Communication Skills/	Veterans Administration Hospital
noistyici zaignionthat zaantuti Social Sciences Division	B.S., Indiana University of Court Assessment Sensitive S
B.A., University of Cincinnati	Ecker, Pamela S Coordinator/Instructor
M.A., Univeristy of Cincinnati	Communication Skills/Social Sciences
Coffe-Findlay, Eileen I., R.D Coordinator,	B.A., Hanover College grizesvint asiveX , b3.M
91600610 & normound sufficience Of Health Technologies Division	M.A., Bowling Green State University
B.S., University of Manitoba and Manager	Ehrlinger, Claire
R.D., University of Michigan Assessment D to vital sunt 12.8	Business Technologies Division
Coomes, Anne, R.R.A Clinical Adjunct Instructor,	B.S., Michigan State University
asignlonutsof asoniaut norsuntant Medical Record Program	Eilers, Al Adjunct Instructor,
noisiviO St. Elizabeth Medical Center	noisiviO sousments// Health Technologies Division
Craigo, Robert W Dean Emeritus,	B.S.Ed., University of Cincinnati and order of the second
Engineering Technologies Division	M.Ed., University of Cincinnati annioni D to valence of of Ci
B.S., West Virginia Institute of Technology	M.B.A., Xavier University
M.S., University of Cincinnati	Elder, Sr. Mary Clarita, ART Clinical Adjunct Instructor,
Cummins, Gary Adjunct Instructor,	Medical Record Program
Health Technologies Division	St. Francis St. Coorgo Hospital
B.E.Ed., Miami University	Ellis, Patrick Assistant Extension Director
Dadey, Donald Professor Emeritus,	B.S., Case Western Reserve University
Business Technologies Division	B.S., Ohio State University
B.S., University of Cincinnati	B.S., Ohio State University M.B.A., University of Cincinnati
M.Ed., University of Cincinnati hazoff mathemat bood CLA	Elmer, Robert V

Business Technologies Division	Research & Planning &
B.S., University of Cincinnati M.Ed., University of Cincinnati	Administrative Services B.S., Xavier University
Ennis, Constance Adjunct Instructor, Physical Sciences/	M.Ed., Xavier University
Mathematics Division	Ph.D., University of Cincinnati
B.S., Miami University	Gohn, A. Janelle, M.T. (ASCP), S.M Coordinator
Enyeart, Peter, M.D Adjunct Clinical Instructor,	Health Technologies Division
Respiratory Therapy Program Bethesda Hospital	B.S., Indiana University Gohn, Robert, M.T. (ASCP)
M.D., University of Cincinnati	Health Technologies Division
Enzweiler, Philip Adjunct Instructor,	B.S., Indiana University
Communication Skills/Social Sciences Division	Graff, Daryl
A.B., Xavier University	Engineering Technologies Division
Erwin, Judith, ART	A.S., Ohio College of Applied Science Graff, Gary A Director, Industrial
Careunit Hospital of Cincinnati	Training & Extended Services
Eveslage, Jana, R.R.T Adjunct Instructor,	Engineering Technologies Division
Health Technologies Division	A.A.S., Ohio College of Applied Science
A.S., Webber State College Eveslage, Robert W., R.R.T	B.S., University of Cincinnati
Health Technologies Division	M.Ed., University of Cincinnati Gratton, Alfred
B.S., University of Cincinnati	Business Technologies Division
M.S., Indiana University	B.S., Clarkson College
Farrer, James A Instructor,	M.B.A., Xavier University Wiles University William W.A. A. W.
Engineering Technologies Division A.E., Southern Technical Institute	Green, Marcus M Coordinator, Communication Skills/ Social Sciences Division
B.S., University of Cincinnati	B.S., University of Cincinnati
M.Ed., University of Cincinnati	M.Ed., University of Cincinnati
Feeley, Timothy Adjunct Instructor, Communication Skills/	Gula, Carol, R.N Adjunct Clinical Instructor,
Social Sciences Division	Surgical Technology Program
B.A., Union College	Deaconess Hospital
M.Ed., Miami University Feghali, Valentine, M.D	Hardy, Pat, R.N., M.S.N
Health Technologies Division	Bethesda Hospital School of Nursing Harrier, Peggy D
B.S., American University of Beirut	Business Technologies Division
M.D., Padua Medical School, Italy	B.A., St. Mary's College/University of Notre Dame
Fehrenbach, Dorothy, ART Adjunct Clinical Instructor, Medical Record Program	M.Ed., Xavier University Hassan, JamesInstructor, Communication Skills/
Our Lady of Mercy Hospital	Social Sciences Division
Fennell, Diane, ART Clinical Adjunct Instructor,	B.A., Georgetown College
Medical Record Program	M.A., Eastern Kentucky University 91516 need 2 8
Millcreek Psychiatric Institute Flamm, Elmer C Professor Emeritus, Communication Skills/	Heck, Brenda, R.N., M.S.N
Social Sciences Division	Bethesda Hospital School of Nursing Heink, Harry R Instructor, Communication Skills/
A.B., Xavier University	Social Sciences Division
M.Ed., Xavier University	A.B., Eastern Kentucky State College To Village A.B., A.M.
Ford, Linda Adjunct Instructor, Physical Sciences/	M.Ed., Xavier University
B.A., Ohio Wesleyan	Henderson, John L. Senior Assistant to the President for Institutional Development
MAT., University of Chicago	B.A. Hampton Institute and discommon singer ball
Fowler, Martha, R.R.A Adjunct Instructor,	M.S., University of Cincinnati
Medical Record Program	Ph.D., University of Cincinnati
A.A.S., Cincinnati Technical College	Hendrix, Richard E., C.H.A
B.S., Eastern Kentucky University Froehlich, Jerry A	Business Technologies Division B.S., Bowling Green State University
Engineering Technologies Division	M.Ed., Xavier University
A.A.S., Ohio College of Applied Science	M.Ed., Xavier University Herr, Gregory
B.S., University of Cincinnati	Engineering Technologies Division
M.Ed., Xavier University Funk, Hal G Director, Facilities,	Herzog, Sr. Catherine, D.T. Adjunct Clinical Instructor, Dietetics Program
Engineering Technologies Division	Dietetics Program Our Lady of the Way Hospital
B.S., Ohio State University	Martin, Ky.
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Furrier, Kenneth Extension Director	Hils, Neal CInstructor,
B.S., Miami University M.Ed., Ohio University	Business Technologies Division B.S., University of Cincinnati
Gallagher, Miriam, R.NAdjunct Instructor,	Hirsch, Edward A Adjunct Instructor, Physical Sciences/
Health Technologies Division	Mathematics Division
B.S., College of Mt. St. Joseph Gambrell, Karen L	B.S., Salmon P. Chase College Hodges, Wanda, R.M
Gambrell, Karen L Instructor,	
Business Technologies Division B.S., Clemson University	Health Technologies Division B.S.N., University of Cincinnati
Glenn, Terrence J Senior Assistant to the President	Hoeweler, Janice L

Developmental Education	M.Ed., University of Cincinnati
B.S., University of Illinois	Kelly, Robert H., CRB, CA-SCoordinator,
Holland, Randy, R.N	Business Technologies Division
Surgical Technology Program	A.B., University of Cincinnati mulbA someteng almost
St. Francis-St. George Hospital	Certified Residential Broker, Realtors Nat'l. Marketing Institute
Hollstegge, Linda S Adjunct Instructor,	Sr. Certified Appraiser, American Assn. of Certified Appraisers
more by Classical on the Engineering Technologies Division	Kerr, Jane Sunderman
A.A.S., Cincinnati Technical College	ranged vassed reputational Engineering Technologies Division
B.A., University of Cincinnati	A.A.S., Cincinnati Technical College
Hoog, Linda Adjunct Instructor, Physical Sciences/	B.S.M.E., Tri-State College and Concomment of the Alice College and Comment of the College and College
Mathematics Division	Kilpatrick, Alan Adjunct Instructor, Physical Sciences/
B.S., University of Cincinnati Horton, James H Director, Learning Resource Center	B.A., Texas A & M. University
B.S., Indiana State University & ballough to spellou oid Que A	Kinsella, John
M.S., Indiana State University	Business Technologies Division
M.S., Indiana State University House, Clifford R. President Emeritus	Certified Master Chef, American Culinary Federation
B.A., Fairmont State College	Certified Chef, City & Guilds of London Institute
M.Ed., Xavier University and hedga A to enable of the A.A.	Royal Institute of Public Health & Hygiene
Howes, Mary Lee Instructor, Communication Skills/	Certified Chef, Irish Panel of Chefs
P. A. Edgesliff College	Certified Executive Chef, American Culinary Federation
B.A., Edgecliff College Hubbard, John H., P.E. Program Chariman,	Certified Culinary Educator, American Culinary Federation Kinzie, Paul W
Engineering Technologies Division	Business Technologies Division
B.S.C.E., Tufts University	B.S., University of Cincinnati
M.S., University of Pittsburgh	M.Ed., University of Cincinnati
Huffman, Elodie, R.D	Knepp, Linda
Health Technologies Division B.S., Cornell University	B. S. Capital I Iniversity
B.S., Cornell University M.Ed., University of Cincinnati	B.S., Capital University B.Ed., Capital B.Ed., Capi
R.D., Oklahoma State University	Kobberdahl, C.E
Huge, Terrence	Business Technologies Division
iot ymizhi i muib/	B.S., University of North Dakota
B.S., University of Cincinnati	M.Ed., University of Cincinnati
M.S., University of Cincinnati	Koenig, Kathryn Assistant Extension Director
Hunley-Belanger, Marcha Instructor, Communication Skills/	B.A., Central Methodist College to supply the M.A., University of Northern Iowa and a leading to the M.A.
B.S.Ed., University of Cincinnati	Koenig, Louis Extension Director
M.A.I.R., University of Cincinnati	B.M., Central College
M.A.I.R., University of Cincinnati Hurley, John E Director, Athletics &	M.M., Cincinnati Conservatory of Music
Student Activities	M.Ed., Miami University TRA and University
B.S., Bowling Green State University	Kober, Thomas E Assistant Dean,
M.S., Ohio University lacobucci, Frank A	Health Technologies Division
Wiles moits summing and aurani Mathematics Division	B.A., Earlham College M.S., University of Cincinnati
B.S.Ed., University of Cincinnati	Ph.D., University of Cincinnati
M.A.I.R., University of Cincinnati	Koester, Norbert Adjunct Instructor, Physical Sciences/
Jackson, Joan Instructor, Physical Sciences/	Mathematics Division
Mathematics Division	B.S., University of Cincinnati
A.B., DePauw University	Kraus, Stephen, M.T. (ASCP) Clinical Adjunct Instructor,
M.Ed., Virginia Commonwealth University and managementA. 8	Medical Laboratory Technician Program
James, Judd H., C.MfgE	Dearborn County Hospital, IN
Engineering Technologies Division B.S.M.E., University of Cincinnati	B.S., Eastern Kentucky University Krismer, Marianne, R.D
Jennings, Barb, S.M., M.T. (ASCP) Adjunct Instructor,	Health Technologies Division
Health Technologies Division	
B.A., Thomas More College	B.S., Edgecliff College M.Ed., University of Cincinnati
S.M., M.T. (ASCP), Good Samaritan Hospital School of Medical	R.D., University of Cincinnati General Hospital
Technology	Kroeger, Richard, M.T. (ASCP) Clinical Adjunct Instructor,
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B.S., Ball State University	Good Samaritan Hospital
M.Ed., University of Cincinnati	Kuehn, Irvin CProfessor Emeritus,
Jones, Michael H Instructor, Communication Skills/	Business Technologies Division
Social Sciences Division	B.S., Eastern Kentucky University
B.F.A., University of Cincinnati	M.A., Eastern Kentucky University
Kaminski, Geraldine M., M.T. (ASCP)	Lach, Jane, RRA
Health Technologies Division	Medical Record Program
B.S., University of Dayton M.T.S., Catholic University of America	R A Indiana University
D.A., Catholic University of America	B.A., Indiana University B.S., Indiana University B.S., Indiana University
Keenan, Joseph N	Laemmle, Carolyn G., M.T. (ASCP), C.L.S Coordinator,
Business Technologies Division	Health Technologies Division
B.S., University of Cincinnati	B.A., Edgecliff College

M.S., College of M.S. S. Doseph Lalley, John M. Instructor, Physical Sciences/ Mathematics Division B.S., Thomas More College Lapsa, Joan, ART Adjunct Clinical Instructor, Medical Record Program Good Samartian Hospital A.A.S., Cincinnati Technical College Laverence, Volanda C. Coordinator, Veterans Affairs Student Services Division B.S. B.A., Xavier University M.S., Southwood Institute B.S.B.A., Xavier University M.S., South Dakota State University M.S., College College Lavier College M.S., Mathematics Division B.S., Wright State University M.Ed., Divisersity of Cincinnati Liert, Debbie, R.R.I. Adjunct Instructor, Communication Stills/ B.S., Javier University M.Ed., Divisersity of Cincinnati Liert, Debbie, R.R.I. Adjunct Instructor, Medical Record Program B.S., Eastern Kentucky University M.Ed., Divisersity of Cincinnati Liert, Debbie, R.R.I. Adjunct Clinical Instructor, Medical Record Program B.S., Eastern Kentucky University M.Ed., Divisersity of Cincinnati Liert, Debbie, R.R.I. Majunct Instructor, Medical Record Program B.S., Eastern Kentucky University M.Ed., Divisersity of Cincinnati Liert, Debbie, R.R.I. Majunct Linical Instructor, Medical Record Program M.S., College Institute M.A., Science Institute M.A., College Institute M.A., Science Institute M.A., College Institute M.A., Science Institute M.A.,	M.T. (ASCP), St. Mary's Memorial Hospital School of Medical Technology	Mann, Charles T Coordinator/Counselor Part-time Student Employment and Development
B.S., Thomas More College Lapsa, Joan, ART Adjunct Clinical Instructor, Medical Record Program A.A.S., Cincinnati Technical College Lawrence, Volanda C. Coordinator, Veterans Affairs A.A.S., Cincinnati Technical College Lawrence, Volanda C. Coordinator, Veterans Affairs A.A.S., Northwood Institute B.S.B.A., Xavier University B.S., A.X. West Virginia Institute of Technology Postal Sciences/ Markents: Division B.S., West Virginia Institute of Technology Postal Sciences/ Markents: Division B.S., West Virginia Institute of Technology Postal Sciences/ Markents: Division B.S., West Virginia Institute of Technology Postal Sciences/ Markents: Division B.S., West Virginia Institute of Technology Postal Sciences/ Markents: Division B.S., West Virginia Institute of Technology Postal Sciences/ Markents: Division B.S., Christophy of Cincinnati Lepp, Candace, R.R.A. Adjunct Instructor, Physical Sciences/ Markents: Division M.S., Division Sciences Adjunct Instructor, Physical Sciences/ Markents: Division M.S., Division Sciences Adjunct Instructor, Physical Sciences/ Markents: Division M.S., Savier University of Cincinnati Lewis, Janice B.S., Wijsit State University M.Ed., University of Cincinnati Leberman, Hope Developmental Education B.S., Wijsit State University M.Ed., University of Cincinnati Leberman, Hope Developmental Education B.S., Wijsit State University M.Ed., University of Cincinnati Lifette, Beth, R.R.A. Adjunct Instructor, Physical Sciences/ Markents: Division B.S., Liniversity of Cincinnati Lifette, Beth, R.R.A. Adjunct Instructor, Physical Sciences/ Markents: Division B.S., Eastern Kentucky University Lint, Dennis Adjunct Instructor, Medical Record Program B.S., Liniversity of Cincinnati Lifette, Liniversity of Cincinnati Lifette, Beth, R.R.A. Adjunct Instructor, Medical Record Program Nightengale Medical Sciences/ Markents: Division B.S., Liniversity of Cincinnati Lifette, Beth, R.R.A. Adjunct Instructor, Medical Record Program Nightengale Medical Sciences/ Markents: Division B.S., Liniversity of Cincinnati Li	M.S., College of Mt. St. Joseph	
B.S., Thomas More College Lapsa, Joan, ART A.A.S., Chicknast Technical College Machina Record Program Good Samardian Hospital Lawrence, Yolanda C. Coordinator, Veterans Affairs Student Services Division A.A.S., Northwood Institute B.S.B.A., Axely chliwersity Leicht, Albert G. B.S., Mayer University Leicht, Albert G. B.S., Mexic University Leignigner, Donald Adjunct Instructor, Physical Sciences/ Mathematics Division B.S., Mexic University of Cincinnati Lepp, Candace, R.R.A. Adjunct Clinical Instructor, Medical Record Program Providence Hospital Reverone, Leslie A.B., Chio State University B.S., Liniversity of Cincinnati Levis, Janice Emission of Cincinnati M.S., University of Cincinnati M.S., University of Cincinnati M.S., University of Cincinnati M.S., Wijeh State University N.E.D., Machine College N.S., Wijeh State University Leberman, Hope Developmental Education B.S., Karier University Link, Dennis B.S., Environment State University Link, Dennis B.S., Liniversity of Cincinnati Little, Beth, R.R.A. Adjunct Clinical Instructor, Medical Record Program Children's Hospital Medical Center Macke, Fred A.A., Adjunct Instructor, Medical Record Program Nightenagle Medical Service Macke, Fred A.A., Adjunct Clinical Instructor, Medical Record Program Nightenagle Medical Service Macke, Fred A.A., Adjunct Clinical Instructor, Medical Record Program Nightenagle Medical Service Macke, Fred A.A., Adjunct Clinical Instructor, Medical Record Program Nightenagle Medical Service Macke, Fred A.A., Adjunct Clinical Instructor, Medical Record Program Nightenagle Medical Service Macke, Fred A.A., Adjunct Clinical Instructor, Medical Laboratory Program Nightenagle Medical Service Macke, Fred A.A., Adjunct Clinical Instructor, Medical Laboratory Program Nightenagle Medical Service Macke, Fred A.A., Adjunct Clinical Instructor, Medical Laboratory Program Nightenagle Medical Service Macke, Fred A.A., Adjunct Clinical Instructor, Medical Record Program Nightenagle Medical Service Macke, Fred A.A., Adjunct Clinical Instructor, Medica		
Lapsa, Joan, ART Adjunct Clinical Instructor, Medical Record Program A.A.S., Cincinnati Technical College Good Samaritan Hospital A.A.S., Cincinnati Technical College A.A.S., Cincinnati Technical Student Services Division B.S., West Virginial instituto of Technology M.S., South Dakota State University B.S., A., West Virginial instituto of Technology M.S., South Dakota State University B.S., A., Cincinnati Levin, South Dakota State University B.S., A., Cincinnati Levin, Santian Director B.S., University of Cincinnati Levin, Sanice B.S., University of Cincinnati Levin, Sanice B.S., University of Cincinnati Levin, Sanice B.S., Cincinnati Technical College Libis, Joseph, Jr. A. Adjunct Clinical Instructor, Medical Record Program Instructor, Developmental Education B.S., University of Cincinnati Liert, Debbie, R.R.A. Adjunct Clinical Instructor, Medical Record Program B.S., Eastern Kentucky University Lieberman, Hope Developmental Education B.S., University of Cincinnati Liert, Debbie, R.R.A. Adjunct Clinical Instructor, Medical Record Program B.S., Eastern Kentucky University Link, Dennis B.S., University of Cincinnati Liert, Debbie, R.R.A. Adjunct Clinical Instructor, Medical Record Program B.S., Eastern Kentucky University Link, Dennis B.S., University of Cincinnati Liert, Debbie, R.R.A. Adjunct Clinical Instructor, Medical Record Program B.S., Linkersity of Cincinnati Liert, Debbie, R.R.A. Adjunct Clinical Instructor, Medical Record Program B.S., Linkersity of Cincinnati Liert, Debbie, R.R.A. Adjunct Clinical Instructor, Medical Record Program B.S., Linkersity of Cincinnati Liert, Debbie, R.R.A. Adjunct Clinical Instructor, Medical Record Program Medical Service Mathematics Division B.S., University of Cincinnati Liert, Debbie, R.R.A. Adjunct Clinical Instructor, Medical Record Program Medical Service Mathematics Division B.S., Li		A A S. Purdue University
Medical Record Program Good Samatina Hospital Lawrence, Volanda C. Coordinator, Veterans Affairs Student Services Division B. S. B. A. Xawier University Condinator, Business Technologies Division B. S. B. A. Xawier University Condinator, Business Technologies Division B. S. West Virginal Institute of Technology Technologies Division B. S. West Virginal Institute of Technology Technologies Division B. S. West Virginal Institute of Technology Technologies Division B. S. West Virginal Institute of Technology M. S. South Dakota State University Condinator, Mathematics Division B. S. Mathematics Division B. S. Mathematics Division B. S. University of Cincinnati Lepp, Candace, R. R. A. Adjunct Instructor, Physical Sciences' Mathematics Division B. S. University of Cincinnati Mathematics Division B. S. University of Cincinnati Levis, Debbie, R. R. A. Adjunct Instructor, Communication Skilly S. S. A. S. Condinati Technologies Division B. S. West Virginal Technologies Division B. S. University of Cincinnati Leter, Debbie, R. R. T. Adjunct Clinical Instructor, Medical Record Program B. S. Liniversity of Cincinnati Leter, Debbie, R. R. T. Adjunct Clinical Instructor, Medical Record Program B. S. Liniversity of Cincinnati Leter, Debbie, R. R. T. Adjunct Clinical Instructor, Medical Record Program B. S. University of Cincinnati Liete, Debbie, R. R. T. Adjunct Clinical Instructor, Medical Record Program B. S. Liniversity of Cincinnati Liete, Debbie, R. R. T. Adjunct Clinical Instructor, Medical Record Program B. S. Liniversity of Cincinnati Liete, Debbie, R. R. T. Adjunct Clinical Instructor, Medical Record Program Meterans Administration Hospital Mathematics Division B. S. University of Cincinnati Liete, Debbie, R. R. T. Adjunct Clinical Instructor, Medical Record Program Nightengale Medical Service Medical Record Program Meterans Administration Hospital Medical Center Medical Record Program Nightengale Medical Service Medical Record Program Nightengale Medical Service Medical Record Program Nightengale Medical Service Medi		B.S., Indiana State University
A.A.S., Cincinnati Technical College Lawrence, Volanda C. Coordinator, Veterans Affairs Student Services Division B.S.B.A., Xavier University Leicht, Albert G. B.S., West Virginia Institute of Technology M.S., South Dakota State University Leinginger, Donald Adjunct Instructor, Physical Sciences/ Mathematics Division B.S., Me, University of Cincinnati Lepp, Candace, R.R.A. Adjunct Clinical Instructor, Medical Record Program Providence Hospital B.A., Ohio State University Leverone, Lesile Adjunct Instructor, Physical Sciences/ Mathematics Division M.S., University of Cincinnati Levin, Janice Assistant Director Financial Aids and Scholarships A.A.B., Cincinnati Technical College Libis, Joseph, Jr Adjunct Instructor, Communication Skill/ B.S., Xavier University M.Ed., Aware University M.Ed., Divisersity of Cincinnati Literl, Debbie, R.R.A Adjunct Clinical Instructor, Literl, Debbie, R.R.A Adjunct Clinical Instructor, Medical Record Program B.S., Sastern Kentucky University M.Ed., Divisersity of Cincinnati Literl, Debbie, R.R.A Adjunct Clinical Instructor, Medical Record Program B.S., Livisersity of Cincinnati Literl, Debbie, R.R.A Adjunct Clinical Instructor, Medical Record Program B.S., Livisersity of Cincinnati Literl, Debbie, R.R.A Adjunct Clinical Instructor, Medical Record Program B.S., Livisersity of Cincinnati Literl, Debbie, R.R.A Adjunct Clinical Instructor, Medical Record Program B.S., Livisersity of Cincinnati Literl, Debbie, R.R.A Adjunct Clinical Instructor, Medical Record Program B.S., Livisersity of Cincinnati Literl, Debbie, R.R.A Adjunct Clinical Instructor, Medical Record Program B.S., Livisersity of Cincinnati Literl, Debbie, R.R.A Adjunct Clinical Instructor, Medical Record Program B.S., Livisersity of Cincinnati Literl, Debbie, R.R.A Adjunct Clinical Instructor, Medical Record Program B.S., Livisersity of Cincinnati Medical Record Program B.S., Livisersity of Cincinnati Medical Record Program Medical Record Program Medical Reco		M.Ed., University of Cincinnati
Lawrence, Volanda C. Coordinator, Veterans Affars Student Services Division A.A.S., Northwood Institute Student Services Division B.S. B.S. A. Awier University Coordinator, Possible Sciences M.S., West Verginia Institute of Technologies Division B.S., Medical Record Program Medical Sciences Division R.S., University of Cincinnati Lectric College Libis, Joseph, Jr. Adjunct Instructor, Communication Skilly Sciences Medical Record Program Medical Sciences Division R.S., University of Cincinnati Lectric College Sciences Division R.S., University of Cincinnati Liette, Beth, R.R.A. Adjunct Clinical Instructor, Medical Record Program Medical Sciences Division R.S., University of Cincinnati Lectric Record Program Network Medical Sciences Medical Record Program Network Medical Sciences Medical Record Program Network Medical Sciences Medical Sciences Medical Sciences Medical Sciences Medical Sciences Division R.S., University of Cincinnati Medical Sciences Medical Sci		Ed.D., University of Cincinnati
Student Services Division A.A.S., Northwood Institute B.S.B.A., Xavier University Elecht, Albert G. Business Technologies Division B.S., West Virginia Institute of Technologies Division B.S., University of Cincinnati Lepp, Candace, R.R.A. Adjunct Clinical Instructor, Mathematics Division B.S., University of Cincinnati Everone, Lesile Adjunct Instructor, Physical Sciences Mathematics Division B.S., University of Cincinnati M.S., University of Cincinnati M.S., University of Cincinnati Electric, Basiness Technologies Division B.S., Wight State University M.Ed., University of Cincinnati Liette, Beth, R.R.A. Adjunct Clinical Instructor, Medical Record Program Medical R		
A.A.S., Northwood Institute B.S.B.A., Awaier University Leicht, Albert G. Business Technologies Division B.S., West Virginia Institute of Technology M.S., South Dakota State University Leinginger, Donald Adjunct Instructor, Physical Sciences/ Mathematics Division B.A., Ohio State University Leverone, Lesile Adjunct Instructor, Physical Sciences/ Mathematics Division B.A., Ohio State University Leverone, Lesile Adjunct Instructor, Physical Sciences/ Mathematics Division B.S., University of Cincinnati Levis, Janice Adjunct Instructor, Physical Sciences/ M.S., University of Cincinnati Levis, Janice Assistant Director B.S., Xavier University Social Sciences Division B.S., Xavier University M.E., Assier University M.E., University of Cincinnati Lierl, Debbie, R.R.T Adjunct Instructor, Medical Record Program B.S., Elizabeth Medical Center McGer, Peggy, R.N Suguial Elechnology Program B.S., University of Cincinnati Lierl, Debbie, R.R.T Adjunct Instructor, Medical Record Program B.S., Cincinnati Bible College Lower, Joe B Adjunct Clinical Instructor, Medical Record Program B.S., Cincinnati Bible College Lower, Joe B Adjunct Clinical Instructor, Medical Record Program B.S., Cincinnati Bible College Lower, Joe B Adjunct Distructor, Medical Record Program B.S., Cincinnati Bible College Lower, Joe B Adjunct Distructor, Medical Record Program B.S., Cincinnati Bible College Lower, Joe B Adjunct Clinical Instructor, Medical Record Program Medical Developmental Education B.S., Cincinnati Bible College McGer, Gloria, A.R.T. McGer, Developmental Education B.S., Cincinnati Bible College Lower, Joe R Adjunct Clinical Instructor, Medical Record Program B.S., Chio State University M.A., Ohio State University M.A., Chio State University M.A., Chio State University M.A., Chio State University M.A.,	Student Services Division	B S. University of Cincipati
B.S. B.A., Xavier University Leicht, Albert G. Business Technologies Division B.S., West Virginia Institute Business Technologies Division B.S., Me., University of Cincinnati Lepp, Candace, R.R.A. Adjunct Instructor, Physical Sciences/ Mathematics Division B.A., Ohio State University Leverone, Leslie Adjunct Instructor, Physical Sciences/ Mathematics Division B.S., University of Cincinnati M.S., University of Cincinnati Levis, Jance Financial Aids and Scholarships B.S., Xavier University M.Ed., University of Cincinnati Leiter, Beth, R.R. A. Adjunct Clinical Instructor, Medical Record Program Medical Recor		B.S.Ed., University of Cincinnati
Business Technologies Division B. S., West Virginia Institute of Technology M. S., South Dakota State University Leinginger, Donald Adjunct Instructor, Mathematics Division B. S. Me, University of Cincinnati Lepp, Candace, R. R. A	B.S.B.A., Xavier University	Marsh, Ellen, RRA Adjunct Clinical Instructor,
Business Technologies Division B. S., West Virginia Institute of Technology M.S., South Dakota State University Leinginger, Donald Adjunct Instructor, Mathematics Division B. S.Me., University of Cincinnati Lepp, Candace, R.R.A Adjunct Instructor, Medical Record Program Providence Hospital B.A., Ohio State University Leverone, Lesile Adjunct Instructor, Physical Sciences/ Mathematics Division M.S., University of Cincinnati Lierl, Debbie, R.R.T Adjunct Instructor, Health Technologies Division B.S., University of Cincinnati Lierl, Debbie, R.R.A Adjunct Clinical Instructor, Mathematics Division B.S., University of Cincinnati Lierl, Debbie, R.R.A Adjunct Instructor, Medical Record Program Mathematics Division B.S., University of Cincinnati Lierl, Timothy L Land Mathematics Division B.A., University of Cincinnati Littell, Timothy L Business Technologies Division B.A., University of Cincinnati Littell, Timothy L Business Technologies Division B.S., Ohio State University M.A., Adjunct Linical Instructor, Medical Record Program Veterans Administration Hospital Macke, James M. Adjunct Linical Instructor, Medical Record Program Veterans Administration Hospital Macke, James M. Adjunct Linical Instructor, Medical Record Program Veterans Administration Hospital Macke, James M. Adjunct Linical Instructor, Medical Record Progra	Leicht, Albert G Coordinator,	Vasconside Indiana protection of the Medical Record Program
M.S., South Dakota State University Leinginger, Donald Adjunct Instructor, Physical Sciences/ Mathematics Division B.S.Me., University of Cincinnati Lepp, Candace, R.R.A Adjunct Instructor, Medical Record Program Providence Hospital B.A., Ohio State University Leverone, Leslie Adjunct Instructor, Physical Sciences B.S., University of Cincinnati M.S., University of Cincinnati Literl, Debbie, R.R.I Adjunct Instructor, Health Technologies Division B.S., University of Cincinnati Literl, Beath, R.R.A Adjunct Clinical Instructor, Medical Record Program More Mathematics Division B.S., University of Cincinnati Literl, Timothy L Least Mathematics Division B.A., University of Cincinnati Literl, Timothy L Business Technologies Division B.A., University of Cincinnati Literl, Timothy L Business Technologies Division B.S., Ohio State University M.A., Adjunct Lilincal Instructor, Respiratory Therapy Program Nightengale Medical Service Macke, Fred Adjunct Lilincal Instructor, Medical Record Program Veterans Administration House of Medical Record Program Veterans Administr		latique de la latique de latique de latique de la latique de latique de la latique de latique de latique de la latique de l
Leinginger, Donald		Matinar, Pat
B.S.Me., University of Cincinnati Lepp, Candace, R.R.A. Adjunct Clinical Instructor, Medical Record Program Providence Hospital B.A., Ohio State University Leverone, Leslie Adjunct Instructor, Physical Sciences/ Mathematics Division B.S., University of Cincinnati M.S., University of Cincinnati Lewis, Janice Financial Aids and Scholarships A.A.B., Cincinnati Technical College B.S., Xavier University M.E.d., Xavier University M.E.d., University of Cincinnati Letter, Debbie, R.R.T. Adjunct Instructor, Physical Sciences/ M.E. Medical Record Program Medical Laboratory Program Medical Medical Medica	Leinginger, Donald Adjunct Instructor, Physical Sciences/	Cincinnati Health Department
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Business Technologies Division B.S., Ohio State University M.A., Ohio State University Lyons, Kathy Adjunct Clinical Instructor, Respiratory Therapy Program Nightengale Medical Service Macke, Fred Adjunct Clinical Instructor, Medical Laboratory Program Veterans Administration Hospital Macke, James Coordinator, B.S., Xavier University B.A., Xavier University M.B.A., Xavier University Madsen, Susan Adjunct Instructor, Developmental Education B.S., University of Cincinnati M.S., University of Cincinnati Moorgan, Bonnie, ART Adjunct Clinical Instructor, Medical Record Program Fr. Hamilton-Hughes Memorial Hospital Mullins, Billy D. Program Chairman, Engineering Technologies Division B.S.E.E., University of Kentucky Murray, Robert Adjunct Instructor, Physical Sciences/	A.A.S., CINCINNATI BIDIE COllege Professor Emeritus	M.Ed., University of Cincinnati
B.S., Ohio State University M.A., Ohio State University M.A., Ohio State University Lyons, Kathy Adjunct Clinical Instructor, Respiratory Therapy Program Nightengale Medical Service Macke, Fred Adjunct Clinical Instructor, Medical Laboratory Program Veterans Administration Hospital Macke, James Coordinator, Business Technologies Division B.S., Xavier University B.A., Xavier University M.B.A., Xavier University Madsen, Susan Developmental Education B.A., University of Cincinnati Mains, Keith G. B.S., West Virginia Institute of Technology Mindhardt, Katye L. Business Technologies Division A.A.B., University of Cincinnati M.E.d., University of Cincinnati M.E.d., University of Cincinnati M.E.d., University of Cincinnati M.E.d., University of Cincinnati M.S., University of Cincinnati M.S., University of Cincinnati M.S., University of Cincinnati M.S., University of North Carolina Morgan, Bonnie, ART Adjunct Clinical Instructor, Medical Record Program Fr. Hamilton-Hughes Memorial Hospital Mullins, Billy D. Program Chairman, Engineering Technologies Division B.S.E.E., University of Kentucky Murray, Robert Adjunct Instructor, A.A.B., University of Cincinnati M.Ed., University of Cincinnati M.Ed., University of Cincinnati M.Ed., University of Cincinnati M.Ed., University of Cincinnati M.S., University of Cincinnati M.S., University of Cincinnati M.S., University of North Carolina Morgan, Bonnie, ART Adjunct Clinical Instructor, Fr. Hamilton-Hughes Memorial Hospital Mullins, Billy D. B.S.E.E., University of Kentucky Murray, Robert Adjunct Instructor, A.A.B., University of Cincinnati M.Ed., University of Cincinnati M.Ed., University of Cincinnati M.E.d., University of Cincinnati M.S., University of North Carolina M.S., University of North Car	Business Technologies Division	Business Technologies Division
Respiratory Therapy Program Nightengale Medical Service Macke, Fred		B.S., West Virginia Institute of Technology
Respiratory Therapy Program Nightengale Medical Service Macke, Fred	M.A., Ohio State University	Mindhardt, Katye L Instructor,
Macke, Fred Macke, Fred Macke, Fred Medical Laboratory Program Veterans Administration Hospital Macke, James Coordinator, Business Technologies Division B.S., Xavier University B.A., Xavier University Madsen, Susan Adjunct Instructor, Developmental Education B.A., University of Cincinnati Moon, Robert Instructor, Physical Sciences/ Moon, Robert Moon, Robert Instructor, Physical Sciences/ Moon, Robert Moon, Robert Instructor, Physical Sciences/ Moon, Robert		Business Technologies Division
Macke, Fred Adjunct Clinical Instructor, Medical Laboratory Program Veterans Administration Hospital Macke, James Coordinator, B.S., Xavier University B.A., Xavier University M.B.A., Xavier University Madsen, Susan Adjunct Instructor, B.S., East Tennessee State University M.S., University of Cincinnati M.S., University of North Carolina Morgan, Bonnie, ART Medical Record Program Medical Record Program Morgan, Bonnie, ART Medical Record Program Fr. Hamilton-Hughes Memorial Hospital Mullins, Billy D. Program Chairman, Engineering Technologies Division B.S.E.E., University of Kentucky Murray, Robert Adjunct Instructor, Physical Sciences/ Mathematics Division Mathematics Division Mathematics Division B.S., East Tennessee State University Moson, Robert Mathematics Division Mathematics Division B.S., East Tennessee State University M.S., University of Cincinnati M.S., University of North Carolina Morgan, Bonnie, ART Sengineering Technologies Division B.S.E.E., University of Kentucky Murray, Robert Adjunct Instructor, Physical Sciences/		B.S. University of Cincinnati
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Macke, James	Medical Laboratory Program	Moon, Robert Instructor, Physical Sciences/
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B.S., Xavier University B.A., Xavier University M.B.A., Xavier University Madsen, Susan Adjunct Instructor, Developmental Education B.A., University of Cincinnati Mains, Keith G. Business Technologies Division M.S., University of North Carolina Morgan, Bonnie, ART Medical Record Program Fr. Hamilton-Hughes Memorial Hospital Mullins, Billy D. B.S.E.E., University of Kentucky Murray, Robert Adjunct Instructor, Program Chairman, B.S.E.E., University of Kentucky Murray, Robert Adjunct Instructor, Adjunct Instructor, Physical Sciences/		M.S., Liniversity of Cincinnati
Morgan, Bonnie, ART	B.S., Xavier University	
M.B.A., Xavier University Madsen, Susan Developmental Education B.A., University of Cincinnati Mains, Keith G. Business Technologies Division Medical Record Program Fr. Hamilton-Hughes Memorial Hospital Mullins, Billy D. Engineering Technologies Division B.S.E.E., University of Kentucky Murray, Robert Adjunct Instructor, Physical Sciences/	B.A., Xavier University	Morgan, Bonnie, ART Adjunct Clinical Instructor,
Developmental Education B.A., University of Cincinnati Mains, Keith G. Business Technologies Division Mullins, Billy D. Engineering Technologies Division B.S.E.E., University of Kentucky Murray, Robert Adjunct Instructor, Physical Sciences/	M.B.A., Xavier University	noisivitt saisolondosii saanisust Medical Record Program
Mains, Keith G	Madsen, Susan	
Mains, Keith G	B.A. University of Cincinnati	Figure Technologies Division
Business Technologies Division Murray, Robert Adjunct Instructor, Physical Sciences/	Mains, Keith G Instructor.	B.S.E.E., University of Kentucky
Certification, Northern Kentucky University Mathematics Division	Business Technologies Division	Murray, Robert Adjunct Instructor, Physical Sciences/
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Certified Chef, City & Guilds of London Institute	Surgical Technology Program
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Business Technologies Division	Computer Professionals
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Mathematics Division	Dietetics Program
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Health Technologies Division	Mathematics Division
Owsley, Louis E	B.S., Xavier University
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A.B., San Diego State University (assembled the only of the control of the contro	Schwegman, Charlene, R.N Clinical Adjunct Instructor,
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Rinck, H. Anthony	McCullough-Hyde Hospital
Engineering Technologies Division	B.A., College of St. Francis, Illinois array all has bood believed.
B.S., Xavier University	Scott, Sandra, R.D
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Health Technologies Division	B.S., University of Cincinnati
A.A., University of Cincinnation IsolandouT itempioniO 8.A.A.	R.D., University of Cincinnati
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Engineering Technologies Division	Business Technologies Division
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B.S., University of Cincinnati	Simons, Sandy, R.N
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B.A., Seton Hill College M.D. (MDRA) T.M. J. CORSM. AND MANY	Engineering Technologies Division
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B.A., Wellesley College	Smith, Donna, R.N
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B.S., Xavier University	Sprinkle, Russell
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B.S., Xavier University	M.S., Xavier University Twitty, James, M.T.(ASCP) Adjunct Clinical Instructor,
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Business Technologies Division	Engineering Technologies Division
A.A.B., Cincinnati Technical College (analysis) as magawide	A.A.S., Cincinnati Technical College of the constitution of the co
A.A.S., Cincinnati Technical College B.S., University of Cincinnati	B.S.M.E., Tri-State College Vaughn, A. Wayne
Certified Food and Beverage Executive, Educational Institute of	Finance & Business Affairs
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Engineering Technologies Division	A.A.B., Cincinnati Technical College and to vile evinu. A.A
B.S., Miami University M.Ed., University of Cincinnati	B.S., Xavier University Coordinator,
Stratton, Beverly, ART Adjunct Clinical Instructor,	Business Technologies Division
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Stump, Diane	M.S., Bradley University M.S., Bradley University
B.A., Eastern Kentucky University and an Old Advisor of the Company of the Compan	Wagner, John P Director, Counseling Services
M.A., Eastern Kentucky University mioni Dio graphy in Chillia	B.S., University of Cincinnati
Suer, Kenneth Adjunct Instructor, Communication Skills/ Social Sciences Division	M.Ed., University of Cincinnati Walston, Cathy, RRT
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B.S., Northern Kentucky University	Respiratory Therapy Program
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Vaccina S. Instructor, Physical Sciences/	Webster, Gary M Program Chairman,

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Wilder Catherine B. Assistant Deep C.	M.A., Indiana University M.Ph., Yale University
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Pagainstan Theorem December	Ziegler, Immanuel Professor Emeritus, Physical Sciences/
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M.B.A., Xavier University Willmore, Sharman, R.D	Health Technologies Division
Inageory nonestationable accessive and Health Technologies Division	A A C CONTOUT AT THE STATE OF T
B.S., Purdue University	A.A.S., Cincinnati Technical College
	B.S., University of Cincinnati
M.S., Purdue University	M.S., University of Cincinnati
Winkle, LaVerne	Marilyn Carlies Provide Research Con
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Al Nagele	Paul Inderhees
Lenny Pugh Superior Chevrolet	Vic Ricketts
Irwin Sobul	Lyle Warfield Community Mutual Insurance Co.
Robert Snelling	
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Ed Hensley	Dick Boehm Armco East
Paul Imwalle Federal Home Loan Bank	Mike Carlier
Lisa Savicki Procter and Gamble Co.	John Dooley General Electric Company
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Richard Goettle	Dave Chadwick
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Bill Minielli, Jr Minielli Construction Co.	Ed Kobman Gibson (Retired)
Buford Payne	Fred Manning
Dale Schneider	Ron Schlensker
Lating and Swedes	James Wermes
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Phillip Adams Monsanto Chemical Company	Health Unit Coordinator Technology
Chuck Kaseman	Barbara Austin Mercy Hospital of Fairfield
David Lee	Nancy Binns Bethesda North Hospital
Wayne McDonough	Virginia Blocker Bethesda North Hospital
Norm Myers	Carolyn Brinkerhoff
Gustave Neuss, III	Brenda Harney Bethesda Hospital
James Repasky Drackett Company Thomas Rouff Champion International Corp.	Rosetta Hull
Howard Witsken	Marie Marks University Hospital
Lloyd Lindner	Brenda Montag
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Ron Dobbs Kenner Products	Bernice Sullivan
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David Gredien	Elmer Weingartner

HVAC Technologies	Michael Lense
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Jerry Fellers HAL-PE Assoc.	Juanita P. Simmons
Lee Grosser Lee Grosser Associates	Paul J. Twilling
Ken Hover	
Jim McHugh	Managerial Accounting Technology Greg Burgoon
Bill McMillan Camargo Associates Larry McMullin Hunt Development Corp.	Tom Lindeman Ernst & Whinney
	Bob Manning, CPA Rippe & Kingston
Hotel-Restaurant Management Technology	Holly Stober Arthur Young
Marie Abdon	Ornamental Horriculture Technology
Jim Ellison Holiday Inn Eastgate Chris Hageman Netherland Plaza	Marketing Management/Industrial Sales Technology Joe Bauer
Rick Lobert Winegardner & Hammons	Ralph Estes
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Industrial Software Technology Ralph Bruggeman Cincom Systems	Tom Tenkman
Ralph Bruggeman	Medical Assisting Technology
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	Werner E. Donath, M.D St. Francis-St. George Hospital
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Alan Jones Jewish Hospital	Betty Dublin, RRA
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Larry Zakem Électronic Eye	Jill Frank Bethesda Hospital
Management Information Systems Technology	Kimberly Hoffman
Management Information Systems Technology Robert M. Bartlett Savings & Loan Data Corp.	Barbara Homlar
Brad Dees	
	Georgianna Joary Miller Good Samaritan Hospital
John M. Fricke	Elaine Mullin

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Bolita Williams	Patty Branson Children's Hospital Medical Center
Office Specialist Technologies	Cyndi Campbell, RRT
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Kim Staton Super-X Drugs	Robert Jackson Deaconess Hospital
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	Charlotte Schreckenhofer, CRTTShriner's Burns Institute
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Joe Motz Motz, Inc.	
Julia MurphyCivic Garden Center Cincinnati	Surgical Technology
Joseph T. Obermeyer	Jeffrey Dorrance
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Leonard Thomas Spring Grove Cemetery	Holly Garner Student
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Earl vviison	Melodie Gillette, RN
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Property Management Technology David Chiappone, PhD Chiappone and Schmidtgoessling	Katherine Halverson, RN Children's Hospital Medical Center
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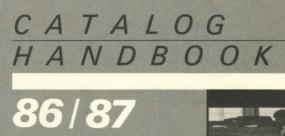








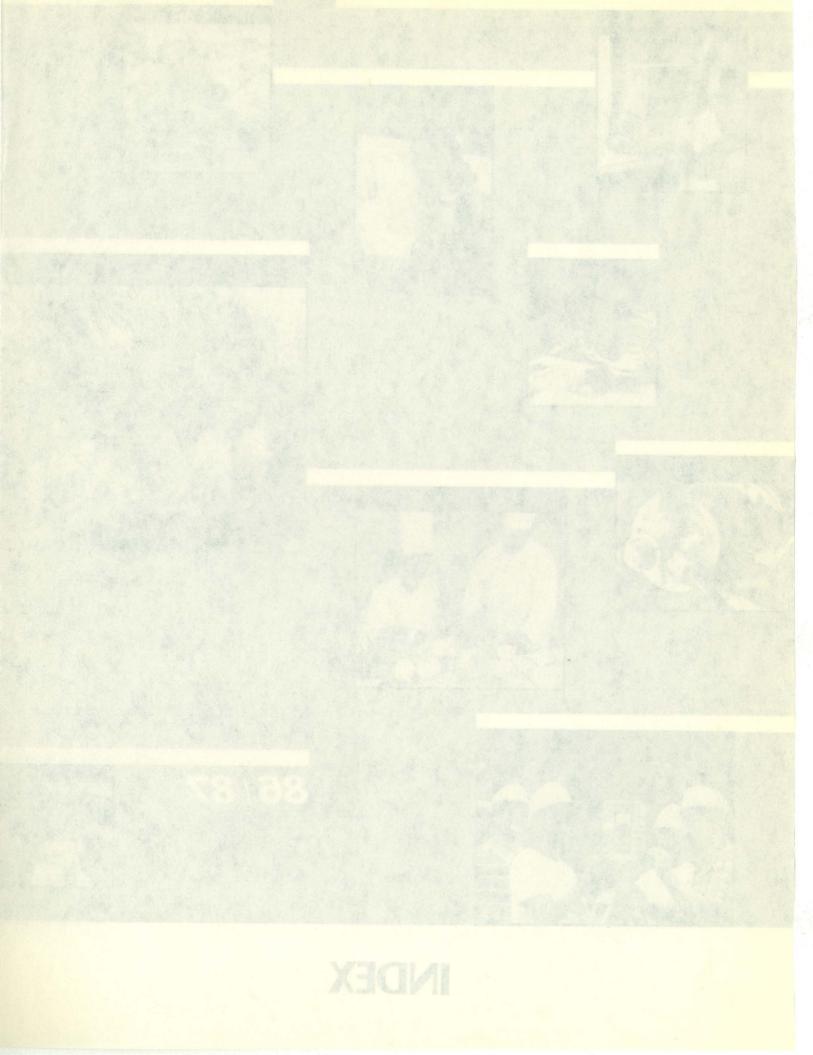








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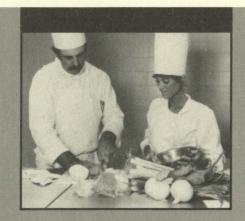


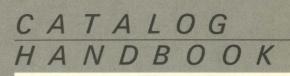










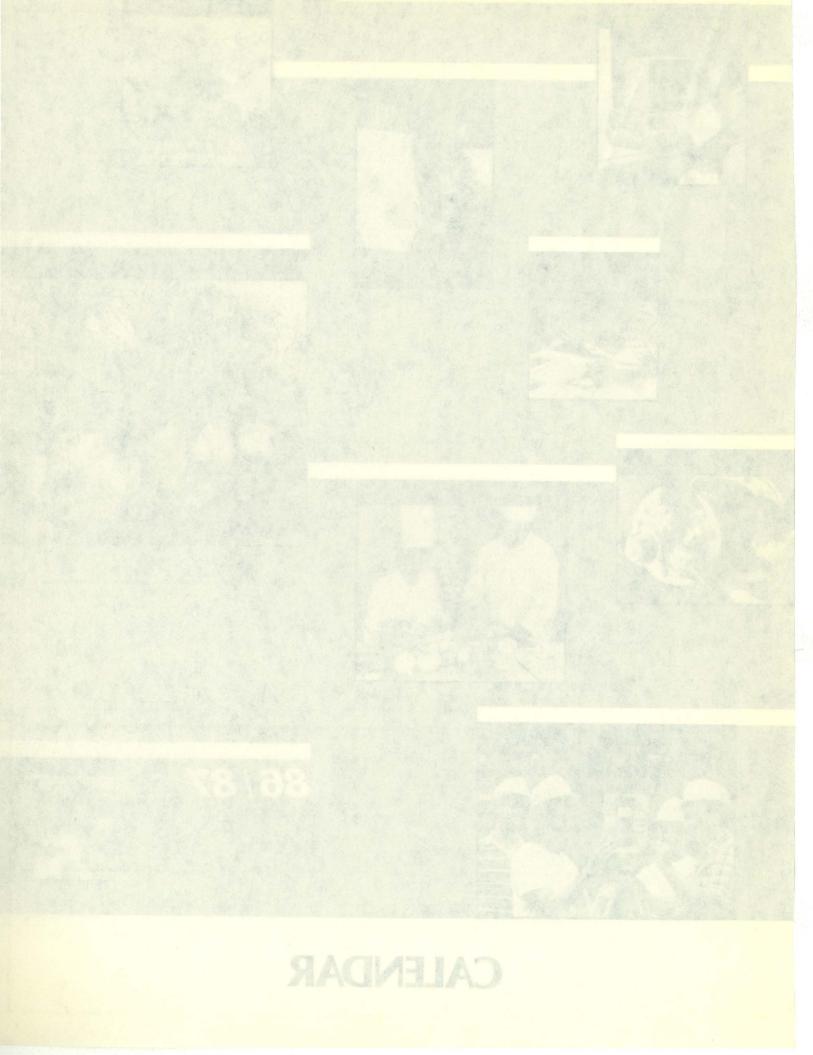








CALENDAR



PTEMBER, 1986 SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Extented Registration 8:00 a.m 7:00 p.m. August 25, 26, 27	1 Labor Day/College Closed	No Classes/Offices Open Last day to withdraw with 100% refund — Sept. term	September Term classes begin Senior Citizens Registration	4 Late fee assessed for registration	OPEN Registration 8:00 a.m 4:30 p.m.	6
	4	-	Open Registration 8:00 a.m7:00 p.m.	-		
7	8 Open	Last day to register for September term or add courses except co-op and extensions	10 common 5+1	11 my fear May recorded M.	12	13
18	Registration 8:00 p.m4:30 p.m. June Term Grade	Open Registration 8:00 p.m4:30 p.m.	22 Coolbanien Prottiens for	23 Lest Dry to Withthew	24	25
	Reports Mailed	Last day to withdraw with 80% refund — September term	Coverse Changes — Emphy Adds at Registration Co-o	op Registration Only 8:00 a.m4:3	0 p.m. 1944 9 11944	
14	15	16 Last day to register for co-op	17 Programs	18	19	20
12	13	FTE reporting date	Last day for November Term Pre-registration	16	17	18
	Co-op Registration Only 8:00 a.m4:30 p.m.		Last day to petition — November Term graduates	No Re	egistration	
21 Commencement	22	23 Board of Trustees	24	25	26	27
Music Hall 1:00 p.m.	6	Meeting	8	8	10	don
28	29	30	term matters			
			Sills for November	- 2	3	Koch Machanah
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FEIDAY	SKTURDAY

OCTOBER, 1986 SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	29	30	1 Bills for November term mailed	2	3	4 Rosh Hashanah
Commencement state Half	6	Last day to change "I" grades from June term	8	9	10	11 51
34	Co op Argentation Only Billia a.m. 4-30 p.m.		Lass day to petition — Nuvernity Tenti graduates	No Res		
12	13 Yom Kippur	16 Last day to register for CO-DQ. FTE reporting date	Bills for November term due No pays—voided pre-registration	16 48	17	18
	Course Change 8:00 a.m	— Drop/Add only 4:30 p.m.	Course Changes — Drop/Adds & Registration 8:00 a.m7:00 p.m.	No Registration o	or Drop/Add Activity	
19	Securitation Open	Last day to register for September term for september term on add courses except each september term.	22 Graduation Petitions for January Term begins (end November 24)	23 Last Day to Withdraw With a Grade of "W" For Sept. Term	24	25
		4	No Registration or Drop/Add Activity	y		
26 22 36 35	January term preregistration begins (ends November 19) January Term schedule available	Board of Trustees Meeting	3 Charse bagin 50 Clarsen 50 Clarsen	Aute fee assessed for maintains allon	31 rar e 28 prar	SATURDAY 6
SEPTEMBER, 1986 SUNDAY		Registration 8:00 a.m7:00 p.m.	MEDITE DVA	Registration 8:	00 a.m4:30 p.m.	

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	299 CT Va Schmoli natt brivay & of punc) Othices Opan	Offices Open Nat Class Nat Class State of the class of	Offices Orașio			1
2	Wanteh valley w. CTC lhoste 2 sd p.m.) Offices Open	Election Day Open Registration 8:00 a.m7:00 p.m	September term ends Last day to change "IP" grades from June Term	No Classes/Offices Open Last day to withdraw with 100% refund — November term Open Registration 8:00 a.m4:30 p.m.	7 College Closed Veterans Day Observed	27
9	November Term Classes begin Senior Citizens Registration	Late fee assessed for registration September term grades due 4:00 p.m. Open Registration 8:00 a.m7:00 p.m	Clark Tech vs. CTC (home 7:30 p.m.)	Open Registration 8	Last day to register for November term or add courses except co-op 8:00 a.m 4:30 p.m. Last day to withdraw with 80% refund — November term :00 a.m4:30 p.m. Vincennes Invitational (away TBA)	Vincennes Invitational (away TBA)
16	September term grade reports mailed	18	January term pre- registration ends	20	Last day to register for co-op Hudepohl Classic (home 6:00 & 8:00)	Hudepohl Classic (home 6:00 & 8:00)
23 30	24 Last day to petition — January Term graduates	25 Board of Trustees Meeting No Registration or Drop/Add Activity	Sells for January serim mailed sweet 7:50 p.m.)	27 Thanksgiving College Closed	28 College Closed Mott Ragnone Invitational (away TBA)	Mott Ragnone Invitational (away TBA)

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
23	1. Sometiment of the second of	8 and of bustees seering	3 Bills for January term mailed CTC vs. Sinclair (away 7:00 p.m.)	Confide Conseq	28 College Closed Most Ragonage Invitational laway TDNy	29 Ment Ragnone (mot atomat lesson TBA)
7 Hanukah	Rasgo roboto unseque brown resur	9	CTC vs. Sullivan (away 8:00 p.m.)	11	Brevard Christmas Tournament (away TBA)	Brevard Christmas Tournament (away TBA)
14	November Term Classes begin Sentor Chizens Registration 12	Shawnee State vs. CTC (home 7:30 p.m.) Course Changes — Drop/Adds 8:00 a.m4:30 p.m.	Bills for January term due No pays — voided pre-registration Registration And Drop/Add Activity Extended Hours 8:00 a.m7:00 p.m.	No Registration or	19 Drop/Add Activity	20
21	Wabash Valley vs. CTC (home 7:30 p.m.) Offices Open No Registration o	23 Offices Open Drop/Add Activity	September form ends Last day to change her sades from her sades from her sades from	College Closed Student Winter Recess	College Closed Sylverians Day Observed 59	27
28	29 CTC vs. Schoolcraft (away 8:00 p.m.) Offices Open	30 CTC vs. St. Clair (away 2:00 p.m.) Offices Open No Classes Student Winter Recess	31 Offices Open	DANAGEN).	- HADAI	The Union

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				New Year's Day College Closed	2 College Closed	Sullivan vs. CTC (home 2:00 p.m.)
4	5 January Term Classes Resume	CTC vs. Northwestern (away 7:30 p.m.)	7	Last day to withdraw with a "W" for Nov. Term	Graduation Petitions for April Term begin (end February 10)	10 remarkana oktyc principania 338
	-	1	No Registration or Drop/Add Activ	ity		
11	April Term schedule available April term pre-registration begins (ends February 3)	Sinclair vs. CTC (home 7:30 p.m.)	18 malled malled 14	Martin Luther King's Birthday CTC vs. Vincennes (away 7:30 p.m.)	16 50	Owens Tech vs. CTC (home 2:00 p.m.)
	Last day to regulater - for co-op	Registration 8:00 a.m7:00 p.m.		Registration 8	:00 a.m4:30 p.m.	
18	College Closed Martin Luther King Day observed	20 Yha Jami Brahman 10	21 CTC vs. Edison State (away 8:00 p.m.)	22	November term ends Last day to change "IP" grades from September Term Open Registration	24 Lakeland vs. CTC (home 7:30 p.m.)
	Open Registration	4.	pen Registration 8:00 a.m7:00 p	o.m.	8;00 a.m4:30 p.m.	
25	Last day to withdraw with 100% refund — January term No Classes/Offices Open	January Term begins Registration 8:00 a.m7:00 p.m. Senior Citizens Registration Board of Trustees Meeting November term grades due—4:00 p.m.	28 Late fee assessed for registration	29	CTC vs. Metro (away 8:00 p.m.)	31 CTC vs. Lakeland (away 3:00 p.m.)
SUMDAY	₹	CTC vs. Shawnee State (away 7:30 p.m.) Open Registration 8:00 a.m7:00 p.m	MEDIAE POAT	Open Registration	n 8:00 a.m4:30 p.m.	SATURDAY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 52	November term grade reports mailed Last day to register for January term or add courses except co-op Last day to withdraw with 80% refund— January term Open Registration	April term pre-registration ends	CTC vs. Clark Tech (away 7:30 p.m.)	5 ly 8:00 a.m4:30 p.m.	6 cach years 30	7 CTC vs. Owens Tech (away 2:00 p.m.)
8	8:00 a.m4:30 p.m. 9 Vincennes vs. CTC (home 7:30 p.m.) Last day to register for co-op 8:00 a.m4:30 p.m.	Last day to petition April Term graduates	11 savey State State CTC vs. Critison State	12 53	13 age tom sometiment and sometiment and	14 Valentines Day Metro vs. CTC (home 3:00 p.m.)
15	16 Presidents Day College Closed	Northwestern vs. CTC (home 7:30 p.m.)	18 Bills for April term mailed	Vario Luliver King's Rathday Rathday 10 Vanconce	20	21
22	5 Classer Resume	24 Board of Trustees Meeting	25	5 Last day to withdraw with a "W" for with a "W" for	OJCAC Tournament (away TBA)	28 OJCAC Tournament (away TBA)
				New Year's Day College Closed	College Closed	Sulfivan ys. CTC thome 2:00 p.m.)
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
DJCAC Tournament away TBA)	2	Last day to change "I" grades from November term	Bills for April term due No pays — voided pre- registration Region XII Tournament (away TBA) Course Changes Drop/Adds & Registration	Region XII Tournament (away TBA)	Region XII Tournament (away TBA)	7
	Course Changes 8:00 a.r	— Drop/Adds Only n4:30 p.m.	Extended Hours 8:00 a.m7:00 p.m.	No Regi Drop/Ac	stration or Id Activity	
8	9	10	11	12	13	14
	20	21 Last day to perition —	22	23 Passover begins	24	25
	Open Registration 8:60 a p. 4:10 p.m.	(0-	No Registration or Drop/Add Activity	o'ur		
15	16	17 St. Patrick's Day	18 Graduation Petitions for June Term begin	19 Last day to withdraw with a "W" for Jan.	20 Cheed	21
	13	14	(end April 21)	term	17	18
		No Regis	stration or Drop/Add Activity for Apr	l Term	1000 a.m =6130 m m	
22	23	24	25	26	27	28
	June term pre-registration begins (ends April 16) June term schedule available	Board of Trustees Meeting	8	а	Landay to suggetor on April porm or aski	11
	-	Registration 8:00 a.m7:00 p.m.	Separation Seam-70 in	4	00 a.m4:30 p.m.	
29	30	31		Old	Close	
			Promot America	5	3	4
	Open Pogistrati	on 8:00 a.m7:00 p.m.	WEDNESDAY	TNURGDAY	EBIOVA	SATURDAY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
59	30	31	January term classes end Open	2	3 fices Open ▶	4
		Registration 8:00 a.m7:00 p.m.	Registration 8 a.m7 p.m.	Open Registratio	on 8:00 a.m4:30 p.m.	
5	April term classes begin	January term grades due	25 8	9	Last day to register for April term or add courses except co-op	11
	and the state of t	Open Registration 8:00 a.m7:00 p	m's reason ar Drops'Add Activ ity for Ap	Open Registrat	ion 8:00 a.m4:30 p.m.	
12	January term grade reports mailed Last day to withdraw with 80% refund — April term	17 St. Patrick N Day	12 to have Jerra began	16 June term pre-registration ends	17 Good Friday College Closed	18
	Open Registration 8:00 a.m4:30 p.m.	Co-	op Registration Only 8:00 a.m4:30) p.m.		
19 Easter	20	21 Last day to petition — June Term graduates	22	23 Passover begins	24	25
	9	June lettii graduates	44	12	13	14
	Co-op Registration Only 8:00 a.m4:30 p.m.	Prop/Adds Only -	Orop/Add+S-Registration Extraded Hours 8:09 a.m. 100 p.m.	No A Drop		
26	27	28 Board of Trustees	29	30	keylon Vil. Expressivers (away File)	
	5	Meeting	totalist kontrevorible No para moded pre- registration	5	е .	7
	AACHON	TUESDAY	WEDNESDAY	THURSDAY	FRIOAY	SATURDAY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	29	30 Lest day to register for lone term or acid courses except co-up Last day to withdraw with 60% refund —			1	2
		pen Registernon 8-00 a.m7:00 p.		Open Registration	100 a.m1:30 p.m.	
3	4	5 weens	6 Bills for June term	7 xe@auxiou	8	9
	22	23 Board of Rustees	mailed and the same	25 Late fer assessed for	26	27
			Registration 8:06 a.m4:10 p.m.			
10	11 Last day to change	12	13	14	15	16
14	Last day to change "1" grades from January term Co-op information sheets due —	16	42	18	19	20
	April term		Registration 6:00 a.m4:10 p.m.	- Other Ohea		
17	18	19 1010 19 1010	20 Bills for June term due	21 Graduation Petitions	22	23
	8	S. Last day to change	No pays — voided pre- registration Course Changes Drop/Adds & Registration for June Term	for September Term begins (end July 9)	42	13
	Course Changes - Dro 8:00 a.	pp/Adds Only, for June Term m4:30 p.m.	for June Term Extended Hours 8:00 a.m7:00 p.m.	No Add/Drop Act No Reg	ivity for June Term istration	
24	25 Memorial Day	26	27	28 September term	29	30
	College Closed	Last day to withdraw with a "W" for April term Board of Trustees Meeting	3	pre-registration begins (ends July 10) September term schedule available	5	е
31	NONON			Add Activity for June Term	FRIDAY	SATURDAY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	Memorial Day College Closed	Anti day to withdraw with a "W" for April term Gold of Inoters	3	September tenn pro-registration begins repris july 10) A blember term schedule available	5	6
	25	26	27	28	29	30
	Course Changes - Dr 8:00.a	Registration 8:00 a.m7:00 p.m	Extended Hours	Registration 8	:00 a.m4:30 p.m.	
7	8	9 Last day to change	No pairs — violed pre-	April term grades	12	13
17	18	Last day to change "IP" courses from January term April term classes end	20 Bills for June term due	April term grades due — 4:00 p.m.	22	23
	4		Summer Recess Registration 8:00 a.m4:30 p.m.	s — Offices Open		
14	15 order and —	16	17 April term	18	19	20
	Land day so change	12	grade reports mailed	14	15	16
	-		Registration 8:00 a.m4:30 p.m.			
21	22	23	24	25	26	27
3	4	Board of Trustees Meeting	June term begins Senior Citizens Registration	Late fee assessed for registration	8	а
	Section 1992 Annual Control	Open Registration 8:00 a.m7:00	p.m.	Open Registration	on 8:00 a.m4:30 p.m.	
28	29	30				
		Last day to register for June term or add courses except co-op Last day to withdraw			1	2
	WO DAW DO NOT	with 80% refund — June Term	WEDNESDAY	THURBDAY	FRIDAY	DATUROAY

ULY, 1987 SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
23	Registration 8 a.m. 7 p.m.	25 Board of Trusters Meeting	lane ferm ends for day to change for gades from	2 Na Came Other Open	Independence Day College Closed	29
		Registration 8 00 s m - 7:00 p m.	Co-op Regis 8:00 a.m.	tration Only 4:30 p.m.	km-4:10 p.m.	
5	Distribution grade The poor lists report li	7 Op Registration Only 8:00 a.m4:30	Last day to register for co-op	9 Last day to petition September graduates	September Term pre-registration ends	11 11
12	13	14	15	16	17	18
	10	11	12	13	14	15
	Course Changes 8.00 a.m	Otopi Aribi Only 130 p.m.	Extended Hours 6:00 s.m. 7:50 p.m.	No Deputy No Reg	d Activity matter	
19	20	21	22 Bills for	23	24	25
	3	4	September Term mailed — Due August 5	6	7	8
26	27	28	29	30	31	
						- No.
	NONOYA	TUESDAY	WEDNESOAY	THURSON	FRIDAY	SATURDAY

JGUST, 1987 SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
	27	28	29	30	31	
2	3	4	5 Bills for	6	7	8
	50	21	September term due — No pays — voided pre- registration	23	24	25
	Course Changes - 8:00 a.m.	– Drop/Adds Only -4:30 p.m.	Course Changes Drop/Add & Registration Extended Hours		add Activity	
9	10	11	8:00 a.m7:00 p.m.	13	istration 14	15
3	10	"	12	Last day to with a		1
	13	14	15	grade of "W" for June term	17	18
	4 0	p Registration Chily 8:00 g.mt	No Registration or Drop/Add Activit	у		
16	Distribution grade report lists — June term	18	19	20	21	22
	November term pre- registration begins (ends September 16)	7	Cast day to regular or co-op	Last day to position September graduates	September form we registration ends	11
	Final November term schedule available	Registration 8:00 a.m7:00 p.	m.	Registration 8:0	00 a.m4:30 p.m.	
23	24	25	26	27	28	29
	Registration 8 a.m7 p.m.	Board of Trustees Meeting	June Term ends Last day to change "IP" grades from April term	No Classes/Offices Open	No Classes/Offices Open June Term grades due — 4:00 p.m.	A.
30	31	4.000000	8:00 a.m7:00 p.m.	AND REDWARD AND A DESCRIPTION OF THE PERSON	0 a.m4:30 p.m.	EWOKOWA EWIOKOWA

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Customized Training

Cincinnati Technical College can provide customized training programs to business, industry, and professional organizations in a variety of areas, including the following:

Accounting

Analyzing the Message Sent to Your Audience

Applied Statistics and Quality Design

Automotive Update

Basic Industrial Electricity w/ Troubleshooting

Blueprint Reading

Career Planning

Computer Aided Design/Drafting (CADD)

Creativity & Problem Solving

Development of Technical Writing Style

EKG Training

Editing Technical Documents

Electrical Code

Electrical Maintenance

Electrical Motors and Controls

Electrical Power Distribution

Electrical Troubleshooting

Energy Management

Estimation - Contracts - Specifications

Food Service Management

Greenhouse and Nursery Management

Group Dynamics and Quality Circles

Health Care Management Techniques

Heating, Ventilating, and Air Conditioning

Human Relations: Problem Centering and Sharing

Hydraulics and Pneumatics

IBM Personal Computer Training

Industrial Instrumentation

Industrial Safety

Labor Relations

Landscape Design

Languages (Technical): German

Japanese

Spanish

Management/Supervision

Manufacturing Processes

Materials Handling

Measurement and Metrology

Mechanical Drives & Linkages

Medical Record Coding

NC/CNC Programming

Parenting and the Professional

Precision Measurement

Process Control

Production Costs & Controls

Programming: Basic

"C"

FORTH

PASCAL

Real Estate Licensing and Continuing Education

Safe Use of Hand/Portable Power Tools

Sales Techniques

Shop Math

Skill Assessment and/or Development

Statistical Process Control (SPC)

Surgical Techniques

Technical Presentations

Telephone Techniques

Text and Graphics Processing

Tood-Die-Jig & Fixtures

Train the Trainer

Training/Human Resource Development

Understanding Yourself and Your Employees

Unit Clerk Training

Welding

Word Processing

Xenith/Unix



Cincinnati Technical College 3520 Central Parkway Cincinnati, Ohio 45223 513/659-1520