

Catalog/Handbook 88/89



1988-1989 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) 569-1500 Admissions Office 569-1540

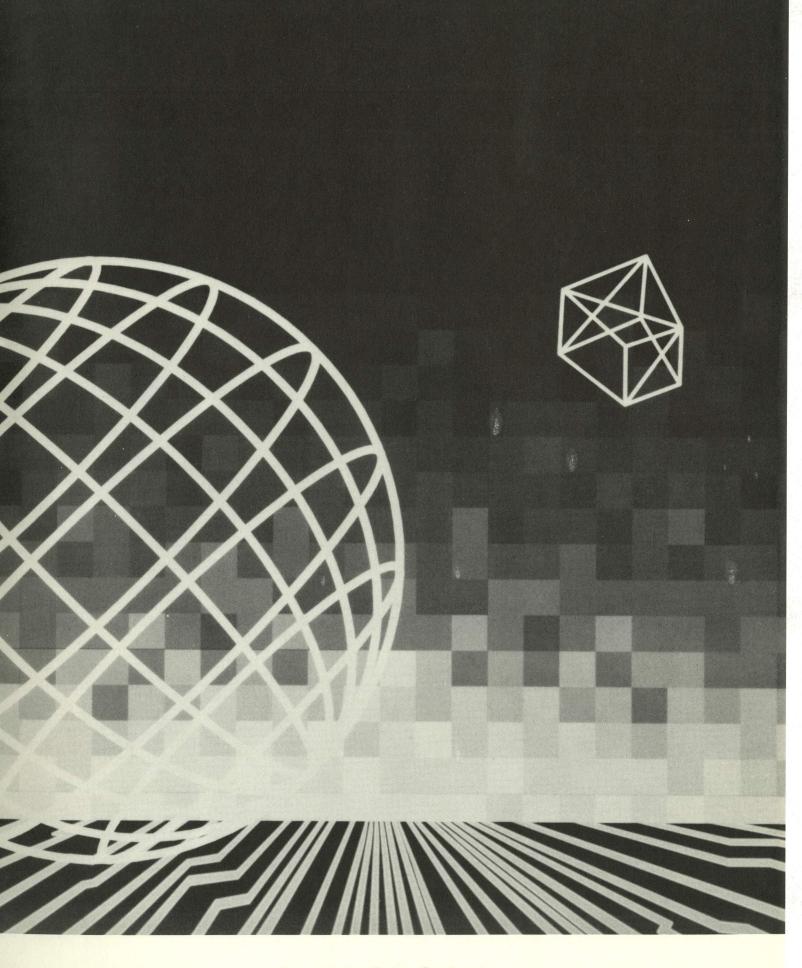
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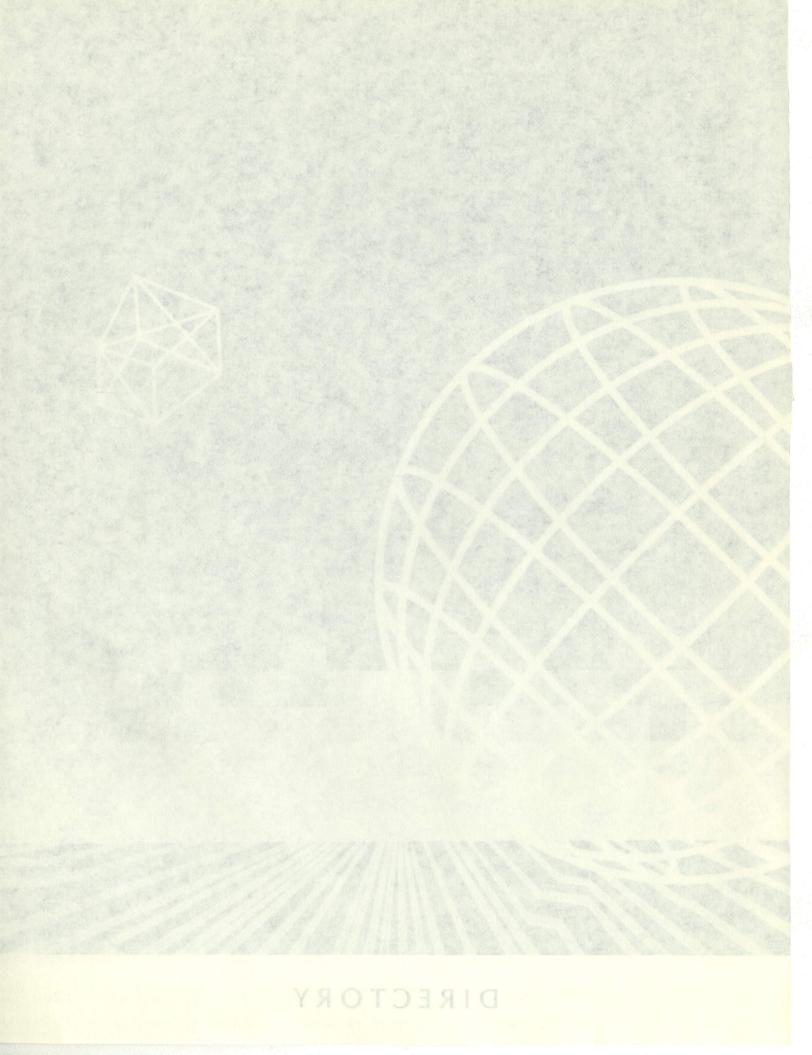
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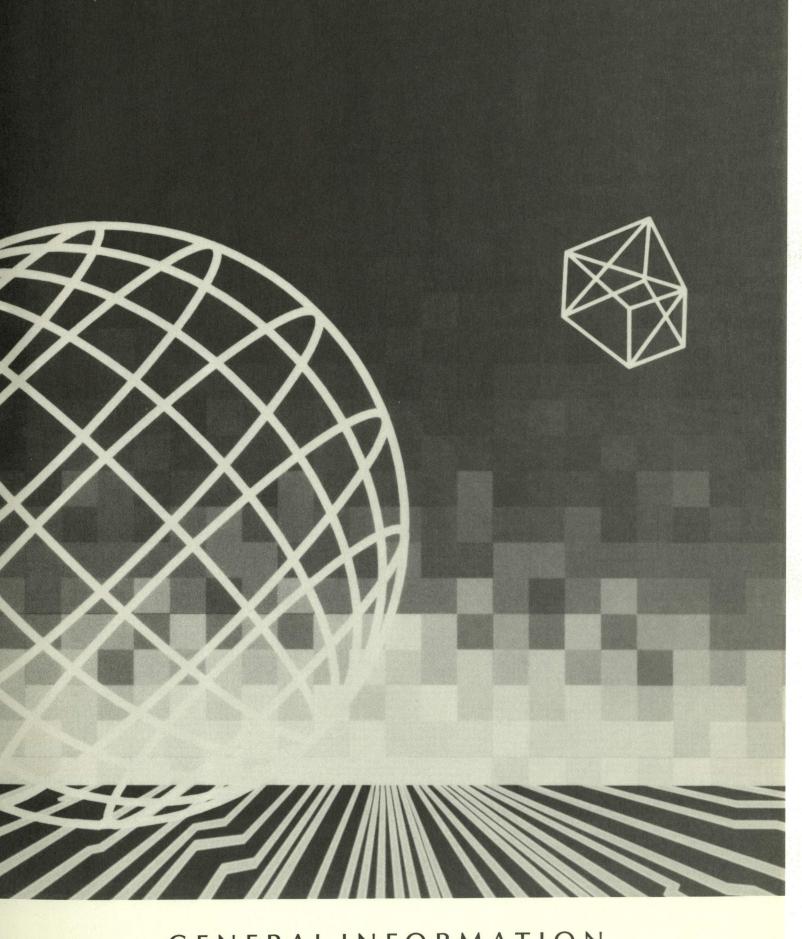
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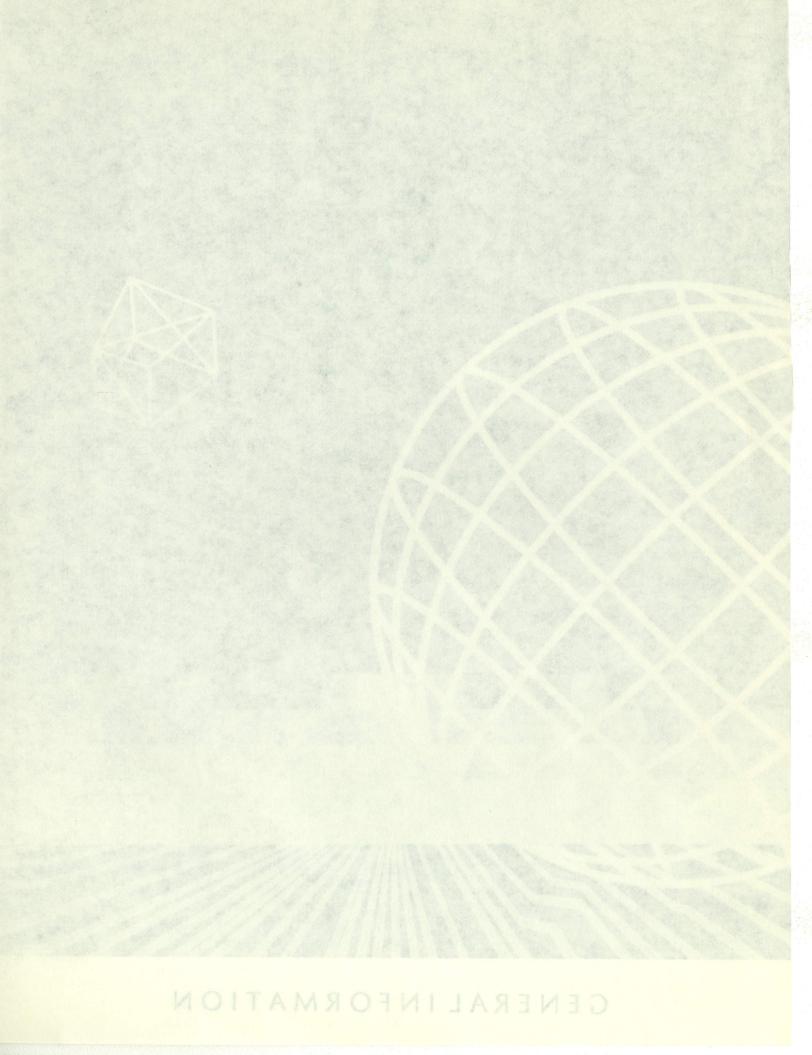
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| Director, Cooperative Education & Graduate Adjunct Faculty JoAnn Airaghi | Assistant Dean Paul A. DeNu, P.S. | Lab Manager John Szasz |
| | Director, Cooperative Education & Graduate | Adjunct Faculty JoAnn Airaghi |

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| Walter Flynn | Shawran Seyd |
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| Liliane Levy | |
| Frances Perry | Communication Skills/Social Sciences |
| David Skopin | Dean |
| Robert Uhl | Executive Assistant Fave McCreadie |
| Kathy Wolfer | Assistant Dean Catherine Rahmes |
| Scott Woods | Writing Center Manager |
| | Technical Writing and Editing Director Pam Ecker |
| Physical Sciences/Mathematics Technologies | Instructors |
| Dean | Mary C. Boswell |
| Executive Assistant Faye McCreadie | Pamela Chaney-Land |
| Industrial Laboratory Technology Program Chair Martha Brosz | Marcus Green |
| Instructors | James Hassan |
| Martha Brosz | Mary Lee Howes |
| lames Farrer | Marcha Hunley-Belanger |
| Jan Hoeweler | Mike Jones |
| Terrence Huge | Daniel Mellinger |
| Joan Jackson | Timothy Nolan |
| John Lalley | Catherine Rahmes |
| Robert Moon | Alyce Rieck |
| Lawrence Pucke | Kim Ziegel |
| Rodney Rupp | Lawrence Ziegler |
| Thomas Stark | Adjunct Faculty |
| Edward Sunderhaus | Mary Corey |
| Richard Swanson | Philip Enzweiler |
| William Tulloss | Joyce Kindle |
| Adjunct Faculty Michael Barney | Sharon Umbaugh |
| Howard Baum | Brad Witt |
| Lois Brauntz | |
| Alan Collier | Developmental Education |
| Robert Duffy | Director Dr. James Marcotte |
| Patrick Ellis | Clerical Assistant Bonnie Brown |
| Christopher Ennis | Para-Professional Debbie Greenlee |
| Constance Ennis | Counselor Sharon Davis |
| Ronald Falconi | Counselor, JTPA Dr. Effie Rosa |
| Elias Feghali | Learning Disabilities Specialist David Cover |
| John Goeltz | Instructors Laura Attenborough |
| Raymond Hauck | Joan Brand |
| Édward Hirsch | Cheryl Cummings |
| Linda Hoog | Linda Knepp |
| Norbert Koester | Hope Lieberman |
| Donald Leininger | Dr. James Marcotte |
| Dennis Link | Adjunct Faculty Cindy Abell |
| John Martin | Ann Gunkel |
| Robert Murray | Carol James |
| Bill Nicholson | Thomas Otten |
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| Alice Portune | Eugenia Samuel |
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GENERALINFORMATION



Philosophy and Mission of 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 providing:

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.

- C. Certificate programs, specialized training, and adult continuing education opportunities of less than one-year duration.
- D. Services and educational experiences to assist students in determining and reaching their educational objectives.
- E. Opportunities for students to develop the skills needed to enter and succeed in technical education programs.
- F. 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 little 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 paraprofessional. To prepare this para-professional to work with the scientist, 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 must develop the practical abilities the specialty requires. Such educational preparation is above 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 fifteen technical colleges, all created since 1966 as a result of federal, state and local initiatives.

Cooperative Education

Cincinnati Technical College's "Co-opportunity" Plan

The Boards of Trustees, the administrative staff and the faculty of Cincinnati Technical College share the belief that the College's distinctive plan of cooperative education offers the soundest possible approach to technical education. The objective of each associate degree program is to prepare the student for immediate employment as a technician and for career advancement. The classroom can provide valuable laboratory experience, but it cannot duplicate an actual work environment. However, many Cincinnati Technical College students participate in supervised cooperative employment at regular intervals. The practical training they receive through cooperative education enriches their academic experience.

In 1988-89, the College will offer 45 associate degree programs and majors and nine certificate programs. Each program was developed to meet a specific need in local business or industry. The need was demonstrated through formal or informal feasibility studies, and is supported by the counsel of an advisory committee which represents the potential employers of these trained technicians.

Benefits of Cincinnati Technical College's Cooperative Education Plan

Cincinnati Technical College has developed a cooperative education program that combines academic and technical education with regular intervals of meaningful work experience. The program has these benefits for the student, the College and the community.

Benefits for the Student

- Educational Growth Students supplement 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 students focus on particular career areas and decide if those areas are appropriate for them.
- (3) Social and Emotional Growth Students develop maturity by taking responsible positions in the business world, with support and guidance to ensure that learning takes place.
- (4) Financial Gain Most full-time students are able to earn money while they gain work experience. The money earned helps many students to finance their education. Also, the work experience the student receives leads to opportunities for promotions and pay increases after graduation.

Benefits for the College

- (1) Understanding area employment needs As College personnel work to establish cooperative education jobs and place graduates, the College becomes more sensitive to the area's employment needs.
- (2) Utilization of the physical plant Because students alternate terms spent on-campus, the College is able to increase its student capacity and make more efficient year-roung use of the physical plant.

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

(4) Faculty awareness - Faculty members keep informed about activities in their fields through their contact with business

and industry.

Benefits for the Community

(1) Trained technicians - The College's programs provide a workforce of trained, experienced technicians for the community. This helps make the community more attractive for business development.

(2) Employment screening - Employers have the opportunity to observe students and to evaluate their suitability for fulltime employment before they make the commitment to hire

full-time personnel.

(3) Economic gain - The increased earning potential of the College's graduates benefits the community through productivity increased, taxes paid and contributions made.

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

History of Cincinnati Technical College

Because a 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 school 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-two 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. Last year the College enrolled 4500 students in 45 degree and certificate programs and options, had a staff of 260 plus over 100 part-time instructors, and had 500 co-op employers.

While the college has experienced tremendous growth, efforts have also been made to offer the highest quality of instruction available. Many awards and citations have been received attesting to the excellence of the College faculty and students. The College has been honored by the Ohio Board of Regents through its Program Excellence Awards. This state-wide competition is open to all undergraduate programs offered at public colleges and universities. The College received awards for the Civil Engineering Technology Program in 1984 and the Electromechanical Engineering Technology Program in 1986.

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 are 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 Registrar 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.

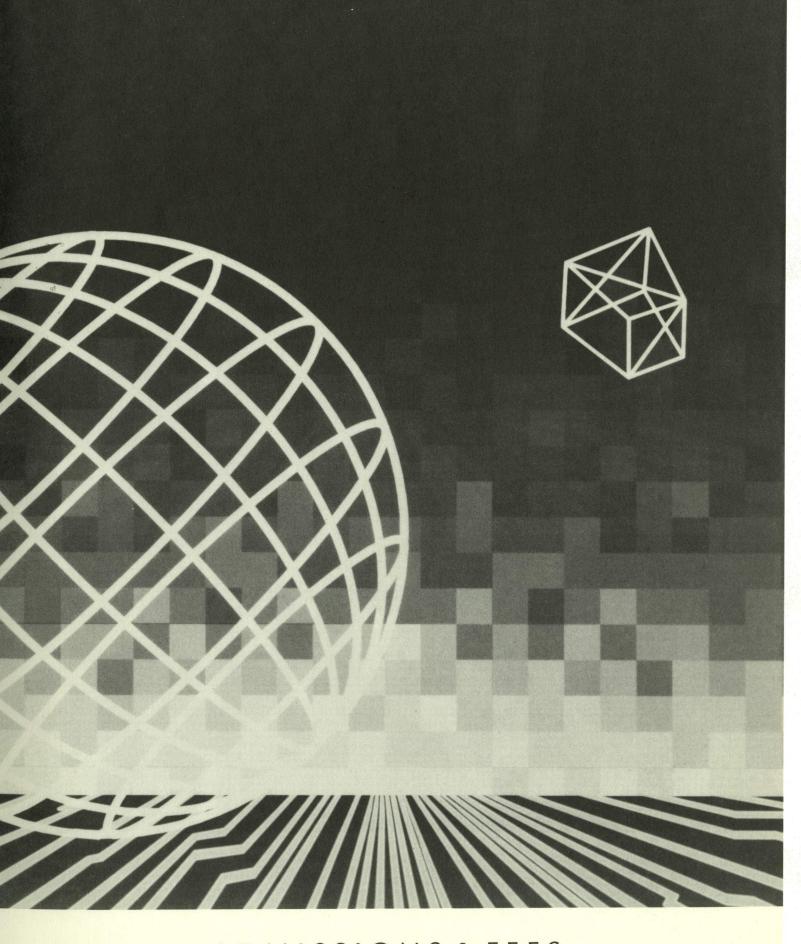
Reserve Officers Training Corps

Cincinnati Technical College has a cross-enrollment agreement with the Army and 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 for these courses and uniforms are provided free to the student.

The student attends ROTC classes and drill periods on the University of Cincinnati campus while attending academic classes at Cincinnati Technical College.

Details may be obtained from the Veterans Affairs Office, room 157 at Cincinnati Technical College.



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 list.)

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 Admission Records Office. (With a GED, the applicant should submit a copy of scores.)
- 3. All applicants are required to attend a Success Seminar, which includes the ASSET test. (See schedule below.)
- 4. 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.
- 5. The applicant should call the Admissions Office for an interview appointment.
- 6. Applicant will be informed of admission status at time of

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 when you accept the College's offer of admission. If a deferment is requested, it will be charged 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 military duty.

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.

Success Seminars

All applicants for admission to certificate or degree programs at Cincinnati Technical College must attend a Success Seminar. The Success Seminar consists of an orientation to the College, assessment of skills and advisement on courses and services needed by

a student to begin their college career successfully.

The ASSET orientation, assessment and advising system developed by the American College Testing Service (ACT) is used in the Success Seminar.

Success Seminar Schedule

| Tuesday | 12:30 p.m 3:00 p.m. |
|-----------------------------------|--------------------------|
| Wednesday | 6:30 p.m 9:00 p.m. |
| First Saturday of Each Month* | 9:00 a.m 11:00 a.m. |
| *(Excludes January, June and Sep | otember due to holidays) |
| Each day of extended registration | 12:30 p.m 3:00 p.m. |
| NOTE: | |

On Tuesdays, a student can attend the College/Career Information Session at 9:00 a.m., the Financial Aid Seminar at 11:00 a.m. and continue with the Success Seminar from 12:30 to 3:00 p.m. In one day you can successfully begin your college career and have lunch on us in the Cincinnati Technical College cafeteria.

Financial Information

Student Expenses has been proposed in the second broad

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.

Schedule of Fees*

Cincinnati Technical College continues to maintain affordable tuition rates in both the Greater Cincinnati area, and in the State of Ohio.

| Instructional Fee | s (per term) | |
|--|--------------|--------------|
| .sidsbni Resi | dent of Ohio | Non-resident |
| Comprehensive fee for load of 12 to 18 hours inclusive | \$540.00 | \$900.00 |
| Extra fees for each hour in excess of 18 hours | 45.00 | 75.00 |
| Fee for each hour load of 1 to 11 hours inclusive | 45.00 | 75.00 |

Includes the instructional fee, general fee, and other non-instruc-

| Includes the instructional fee, general fee, and other non-instru | luc- |
|---|------|
| tional services to students. | |
| Miscellaneous Fees | |
| Application Fee | \$20 |
| Matriculation Fee \$30 | |
| **Credit by Examination Fee (per course) | \$25 |
| Late Registration: | |
| | \$10 |
| (second day after the beginning date of term) | \$20 |
| (third day after the beginning date of term) | \$30 |
| Partial Payment of Fees (promissory note) | \$10 |
| Check Fee (for check returned by bank) | \$10 |
| Laboratory Fee On a Per Course Basis | |
| Student I.D. Card | \$1 |
| Part-time Registration Fee | \$5 |
| Transcript Fee | \$3 |

| Vehical Lower Lot Registration (per term) plus 50¢ a c | day |
|--|--------------|
| Campus Upper Lot Parking Permit Fee (per term) | \$30 |
| Motorcycle Parking (per term) | No Charge |
| Evening Parking, with card (12 Parking Privileges) | \$5 |
| Evening Parking, per evening | 50¢ |
| Credit for Validated Work Experience (per course) | \$25 |
| Graduation Cap, Gown, Invitations Purchased | in Bookstore |

^{**}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 students fails the exam and must continue in the course, a \$5 fee will be charged.

*Subject to change at the discretion of the College.

Cooperative Education Employment

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 \$100 to \$150 per term.

Senior Citizens

Senior citizens may register tuition free to audit courses as space is available. Senior citizens must pay the registration, lab and out-of-state fees, if applicable. 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.)

Refunds

1. The following fees are not refundable.

Matriculation fee

Application fee

Registration fee (except when the College cancels all courses the student is registered for)

Promissory note fee (except when the College cancels all courses the student is registered for)

Late registration fee (except when the College cancels all courses the student is registered for)

- Requests for refunds will only be considered if the student completes and signs the official college student drop/add form.
- Students who do not follow the established withdrawal procedures of the College will not be eligible for a refund.

- 4. A student who has been permitted to make only a partial payment at registration will be refunded the difference between payments made and the total due based on the refund schedule detailed below.
- 5. If a student has a financial obligation or balance due the College, and leaves, the entire balance is due immediately.
- Refunds for total withdrawal are made on the in-or out-ofstate instructional tuition only at the following rates. The official date of total withdrawal is the date of entry by the Registrar's Office.

80% From the first day of class to the seventh calendar day immediately following the first day of class

60% From the eighth calendar day of class to the fourteenth calendar day immediately following the first day of class

7. If a student drops a course before the first day of classes, signs and turns in a course drop/add form, the student will be entitled to a 100% refund of the in- or out-of-state instructional tuition, general fee, and lab fee for that course.

If a student drops a course within seven calendar days after the first day of class, the student will be entitled to an 80% refund of the in- or out- of-state instructional tuition for that course.

If a student drops a course within eight to fourteen calendar days after the first day of classes, the student will be entitled to a 60% refund of the in- or out-of-state instructional tuition for that course.

Students must process a drop/add form. The official date of a drop/add form is the date of entry by the Registrar's Office.

 Refunds due to extenuating circumstances must be made in writing and turned in the the Division Dean or the Director of Extended Services. The Division Dean or the Director of Extended Services will determine refund policy exceptions.

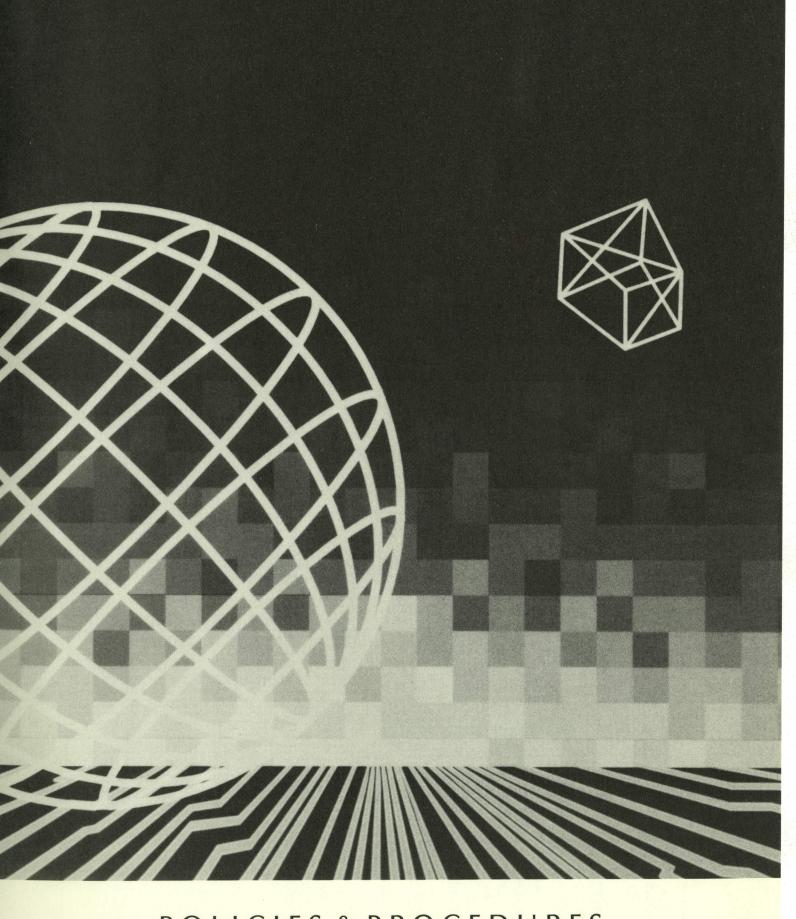
CINCINNATI TECHNICAL COLLEGE RESERVES THE RIGHT TO REVISE THIS STATEMENT OF TUITION REFUNDS AT ANY TIME.

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.



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 student must file a graduation petition in order to graduate. Any matriculated student may file a graduation petition when 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 Frame

Term Degree Requirement Completed

May 31-July 14, 1988 August 16-September 20, 1988 October 24-November 14, 1989 January 12-February 14, 1987 March 22-April 25, 1989

September, 1988 November, 1988 January, 1989 April, 1989 June, 1989

Participation in Commencement

Students may participate in the September commencement ceremonies if they have met the following requirements:

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

*They need no more than nine credit hours (including co-op) and can complete all degree or certificate requirements during the September term. These students may participate if:

- They register for all remaining courses by the close of the advance payment date and present a paid registration receipt to the Registrar.
- 2. The Division Dean approves the student's participation.

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

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 GPA. 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 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 | GPA* |
| STEED TO SOM | 18 through 35 | 1.75 |
| studino Jose. | 36 through 53 | 2.00 |
| hall some si | 54 through 71 | 2.00 |
| IV | 72 and over | 2.00 |

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

A student who does not maintain the above cumulative averages will be placed on academic probation. A student designated as on academic probation is subject to the following conditions:

- 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.
- 3. The student will be subject to academic dismissal from the program if he/she 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 a 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 courses:

| | F 1 4 | Points Per |
|-------|---------------------------------------|--------------------|
| Grade | Explanation | Credit Hour |
| Α | .Excellent | 4 |
| В | .Good | 3 |
| C | .Average | |
| D | .Poor | 10.1. |
| F | .Failing | 0 |
| V | .Withdrawal (Unofficial) | 0 |
| 1 | .Incomplete | .Not Computed |
| IP | .In Progress | Not Computed |
| W | .Withdrawal (Official) | Not Computed |
| X | .Audit | Not Computed |
| UX | .Audit Unsatisfactory | Not Computed |
| K | .Transfer Credit | Not Computed |
| S | .Satisfactory | Not Computed |
| U | .Unsatisfactory | Not Computed |
| N | .No Grade Reported | Not Computed |
| AC | Advanced Placement Program Credit. | Not Computed |
| CI | .CLEP Credit | Not Computed |
| FC | .CTC Proficiency Examination Credit . | Not Computed |
| EY | .Work Experience Credit | .Not Computed |
| VO | Vocational Tanahar Beform I Condit | .Not Computed |
| ٧٥ | .Vocational Teacher Referral Credit | .Not Computed |

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

Incomplete (I) In the standard simples no as being

When unusual circumstances prevent a student from completing course requirements during the term in which the student is enrolled, the student may contract with the instructor to record a grade of "I" (Incomplete) until the final grade may be established. A grade of "I" is awarded at the discretion of the instructor: timetables and requirements for the completion of the course are the instructor's prerogatives. If a final grade has not been established by the last day of the fifth week of the following term, a grade of "F" will be automatically recorded.

In Progress (IP)

When unusual circumstances prevent a student of an individualized course or another IP-approved course from completing course requirements during the term in which the student is enrolled, the student may contract with the instructor to record a grade of "IP" (In Progress) until the final grade may be established. A grade of "IP" is awarded at the discretion of the instructor: timetables and requirements for the completion of the course are the instructor's prerogatives. If a final grade has not been established by the last day of the following term, a grade of "F" will be automatically 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) and (V)

A student who wishes 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 an unofficial withdrawal represented by "V" may be assigned as the final grade in a course if a student discontinues attendance without officially dropping the course.

Audit (X)

Students who are interested in taking a course solely for the value of the instruction may register to audit the course. No college credit may be earned or later claimed for an audited course. Regular tuition is charged for courses being audited. Requirements for attendance, completion of assignments, and examinations are the preogatives of the instructor of the course.

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

Unsatisfactory Audit (UX)

A grade of Ux may be given if the student has not fulfilled predetermined requirements for attendance and completion of assignments as established by the instructor of the course.

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.)

Any accepted and enrolled (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 an explanation sheet. 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.

Any accepted and enrolled (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 is available to students who have been accepted into a program and paid the matriculation fee. The following advanced standing methods allow the student to earn credit for various prior academic and/or work experiences:

Credit Through Proficiency Examinations

1. 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.

2. CTC Exams (EC)

Proficiency examinations are offered by each of the academic divisions at CTC to any enrolled/degree seeking student. 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 examina-

tion.

Credit Through Documented Valid Academic or Work Experience (EX)

Credit may be obtained by providing validated written documentation to the respective academic division in which the student is enrolled and seeking a degree. The documentation must either:

 indicate course content and hours, such as that provided by military programs, industrial programs and hospital programs, or

provide 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 fee is charged made for the courses for which credit is received.

Other Academic Policies

Registration

A degree seeking 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 on co-op. (Please refer to the Calendar Section in the rear of the catalog for dates of pre-registration, billing, payment due dates and on-line registration dates and times.)

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 who wish to add or register for a course which has met after the third day of the term MUST HAVE written permission of the instructor. Failure to obtain permission will prohibit a student from registering for that particular course.

The last day to register or add an evening or Saturday course is the fifth day of the term (or first Saturday). However, students who wish 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 permission will 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 of the term.

Administrative Withdrawal

Effective with the September, 1988 term, a matriculated student who fails to enroll for five (5) consecutive terms will be administratively withdrawn. In such a case, the student must reapply for admission to a program and will be subject to reevaluation and to any change of degree requirements during his or her absence. The re-admitting process is done in the Admissions Office.

Re-Entry Nobe "Grades and Credit Earned, Adva Variety 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. Students accepted into a technology can qualify for Dean's List status in one of two ways:

Full-time students, those who enroll in academic courses totaling 12 or more credit hours, will qualify if their GPA for that term is 3.5 or greater.

Part-time students, those who enroll in academic courses totaling less than 12 credit hours, who have a cumulative GPA of 3.5 or greater, will qualify for Dean's List status after completion of 12, 24, 36, 48, 60, 72, 84, and 96 academic credit hours. Part-time students will not qualify if they have received a grade of I, IP, D, F, U, or V in their most recent academic 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 new/alternate technology.

Only courses which are applicable to the curriculum of the new technology will be computed in the student's GPA.

Cooperative Education Program

The cooperative education program is an integral part of Cincinnati Technical College's past growth, current strength, and continued success. The College's commitment to cooperative education is reflected in the curriculums of many technologies.

Meeting Cooperative Education Requirements

Cincinnati Technical College students who are enrolled in a curriculum which contains 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.

2. Attend classes on a half-day schedule, while simultaneously working half-time (or longer) cooperative education employment, for ten consecutive terms.

With prior approval from the appropriate division, substitute academic courses or previous work experience for cooperative education employment. The student must present appropriate documentation of valid work experience. (See "Grades and Credit Earned, Advanced Standing Credit.").

Meeting Academic Eligibility Requirements

To be eligible for placement in cooperative education employment (or clinical experience/directed practice), a student must maintain the required grade point average as stated in the College catalog (see "Academic Probation and Dismissal"). The students must also demonstrate satisfactory proficiency in core or other required courses.

A student who does not maintain the required GPA will not be eligible for cooperative education or clinical experience/directed practice without the permission of the program coordinator.

Refer to the division sections of the catalog for additional requirements.

Obtaining Cooperative Education Assignments

The College has been quite successful in placing most students in cooperative education jobs; however, there is **no absolute guarantee** of initial or continuing employment. The employer is solely responsible for decisions about hiring, retention, dismissal, promotion or demotion of a cooperative education student. Initial and continuing employment depends on the skills, aptitudes, and behaviors the individual student offers to each potential employer.

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 also adheres 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 of all Inebuts & It revewed notion

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.
 - 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.
 - (7) 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 of Human Resource Services 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 Human Resource Services

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 Human Resource Services. 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 Edu-

cational 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 mam oals bas aggalloo to muitoo

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:

| 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 full-time 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, gymnasium, 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

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. Technology/Division
- 3. Full or Part Time Status

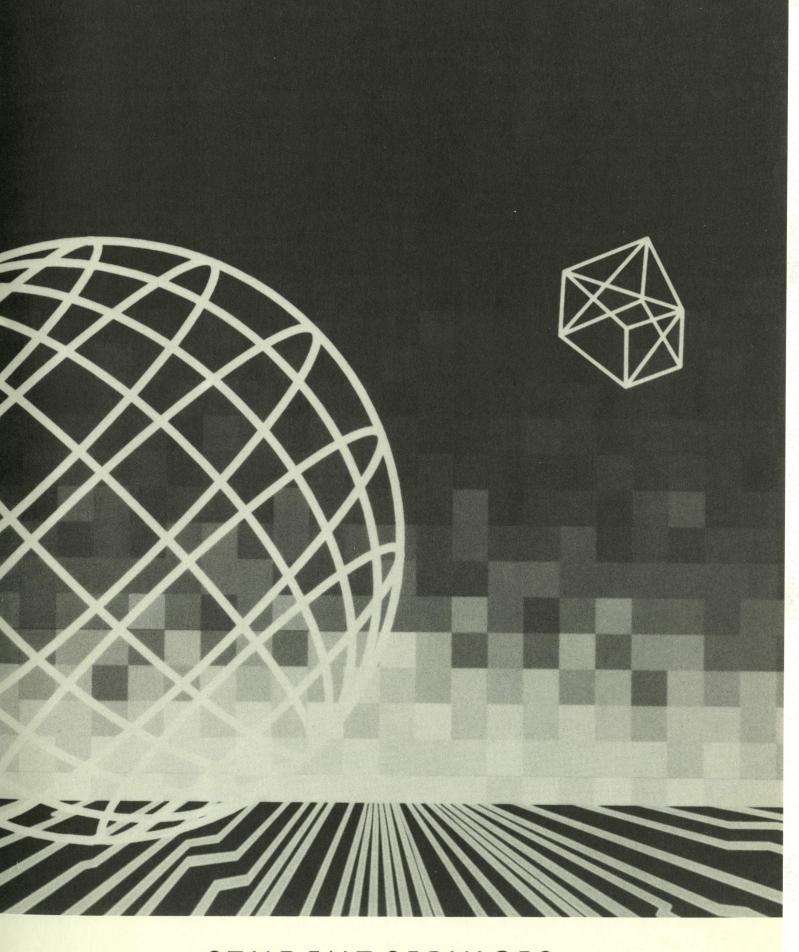
Public information will be used for releases to newspapers, television and radio.

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

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 coordinator 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 coordinator 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 and all their dependents under all existing public laws. Inquiries concerning eligibility should be directed to the Coordinator of Veteran's Affairs in Room 157.

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
- c. 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.

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

Money advanced under the Perkins Program represents federal funds in the form of a LOAN, and must be repaid in accordance with the terms of the Perkins 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 twenty 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 educational loans.

The **maximum** loan amount is \$2625 per calendar year, with the 5.5% origination fee being deducted from the proceeds of the loan. New loans carry an 8% interest charge and a six months grace period starting from graduation or withdrawal from school.

Previous borrowers will be charged interest and be eligible for grace under the same terms as their original loan.

All loan checks are co-payable to the school and the borrower and are sent directly to the school. Students have up to ten years to repay the loan and monthly payments for many borrowers are as little as \$50.

Information regarding the Dislocated Worker and the Lender of

Last Resort Loan Programs can be obtained from the Financial Aid Office. Students should contact their lending agencies regarding the PLUS Loan Program.

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 education.

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 full-time (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 applicable:

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 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 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 repayment.

Emergency Aid Eligibility Requirements

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

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

Student must be making satisfactory progress as defined in CTC's catalog.

 Student must not be in default on a Perkins Loan (formerly 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) Perkins Loan (formerly NDSL), 2) Supplemental Educational Opportunity Grant, 3) Pell Grant and 4) Guaranteed Student Loan.

Other refund distribution priority is as 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.

Flease contact the Veterans Office for furth stights

- 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.

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

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

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.

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

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

Student Responsibilities

- 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.
- 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 1ny changes as they occur, including change of fullor part-time status, technology, family circumstances, address, etc.
- All financial aid recipients are responsible for course withdrawal and repayment of funds if applicable.
- 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.
- All students who are awarded a CWS award are responsible for attending a JOB-PLACEMENT seminar, and signing a CWS work agreement.
- All students have the responsibility of understanding and complying with the College's Standards of Satisfactory Progress.
- All students must notify the Financial Aid Office if they are in default of a loan - Perkins (formerly NDSL), GSL and PLUS while in attendance at ANY post secondary institution.

All students must notify the Financial Aid Office if they owe a refund to Pell Grant, Supplemental Educational Opportunity Grant (SEOG) while in attendance at **ANY** post secondary institution.

Satisfactory Progress

The higher education act of 1965 as amended by Congress in 1980, requires institutions of higher education to establish minimum standards of satisfactory progress for students receiving federal financial aid under the title IV programs. Cincinnati Technical College applies these standards to all institutionally awarded funds including the college work study program, guaranteed student loans, perkins loans, pell grant, and supplemental educational opportunity grants.

The Ohio Board of Regents requires that a student who receives financial aid through a state funded program must maintain standards of progress considered by the institution as satisfactory toward receipt of the degree sought by the student. CTC applies these standards to the Ohio Academic Scholarship, Ohio Instutional Grant, Ohio National Guard Scholarship, and the Ohio War Orphans Scholarship.

All CTC students must maintain satisfactory academic progress

toward their degree. Financial aid recipients must also successfully complete 60% of the credits they register for each term.

A grade of "F" " W" "V" will constitute failure.

Duration of Eligibility

A full time student is eligible for 13 terms of financial aid. A part time student is eligible for 20 terms of financial aid.

| | Total Credit | GPA | |
|---------------|-----------------|------|--|
| Credit Levels | Hours attempted | | |
| 1 | 0 through 35 | 1.75 | |
| II | 36 and over | 2.00 | |

If the student fails to maintain the required grade point average or if they fail to successfully complete 60% of the credits they register for, they will be placed on probation for the next term. They must make an appointment to speak with a financial aid counselor at least one week prior to registering for the next term.

If the student fails to maintain the required grade point average or fails to complete 60% of the credits they register for a second term they will be terminated from financial aid.

Special Note The student should contact the financial aid office before dropping a class and speak with a financial aid counselor regarding satisfactory progress.

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 have built a winning tradition in athletics. As members of the National Junior College Athletic Association (NJCAA).

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 competition is intense in basketball 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 Gabriele Boeckermann 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.

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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 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, video tapes, 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.

Access to Greater Cincinnati Library Consortium (GCLC) Libraries

Registered students at Cincinnati Technical College have access to a number of libraries in the Greater Cincinnati area through the Learning Resource Center's membership in the Greater Cincinnati Library Consortium (GCLC). Information concerning the members of the library consortium is available in the Learning Resource Center. To use one of the libraries in the consortium you must acquire a "GCLC Common Patron I.D." from the Cincinnati Technical College's library staff in the Learning Resource Center. The I.D.'s expire at the end of each CTC term. You must get a new "GCLC Common Patron I.D." each term you are registered for classes at CTC and wish to use a GCLC library.

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 at any time during the year.

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 of all sugmes no send wolley of beatism

The gymnasium is open for "free play" from 8:00 a.m. to 3:00 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 8:00 p.m. and on Saturday from 9:00 a.m. to 12:00 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.

Activities Center, Pool, Gym Rules

- 1. 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.
- 7. 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.)
- 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:

The Upper Lot

This plan permits a student to park in any of the areas

marked in yellow lines on campus. The Upper Lot plan can be purchased for \$25.00 per term. Those areas open to the Upper Lot parking plan are Lot A, Lot B, (the gravel lot), some hilltop spaces, and the front and back drives.

2. The Lower Lot

This plan permits a student to park in Lot C, (the stadium parking lot). The fee for this plan is \$2.00 per term, plus an additional 50¢ per day.

3. The Motorcycle

This plan permits students to park motorcycles on campus. Students must park motorcycles in the areas specifically marked. The fee for this plan is \$12.50 per term.

4. The Handicapped

This plan permits handicapped students to park in the areas marked in blue lines on campus. Those areas are located in the front and the back of the building. The fee for this plan is \$25.00 per term.

5. Night College Parking

Upper lot parking for night school will be 50¢ per car, per night. This is paid at the Guard House. A parking card can be purchased for \$5.00 which entitles the student to park for 12 nights. These cards will be punched upon entry by a Security Officer. Stadium parking for night school is free.

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, (financial hold); 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 persons 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.

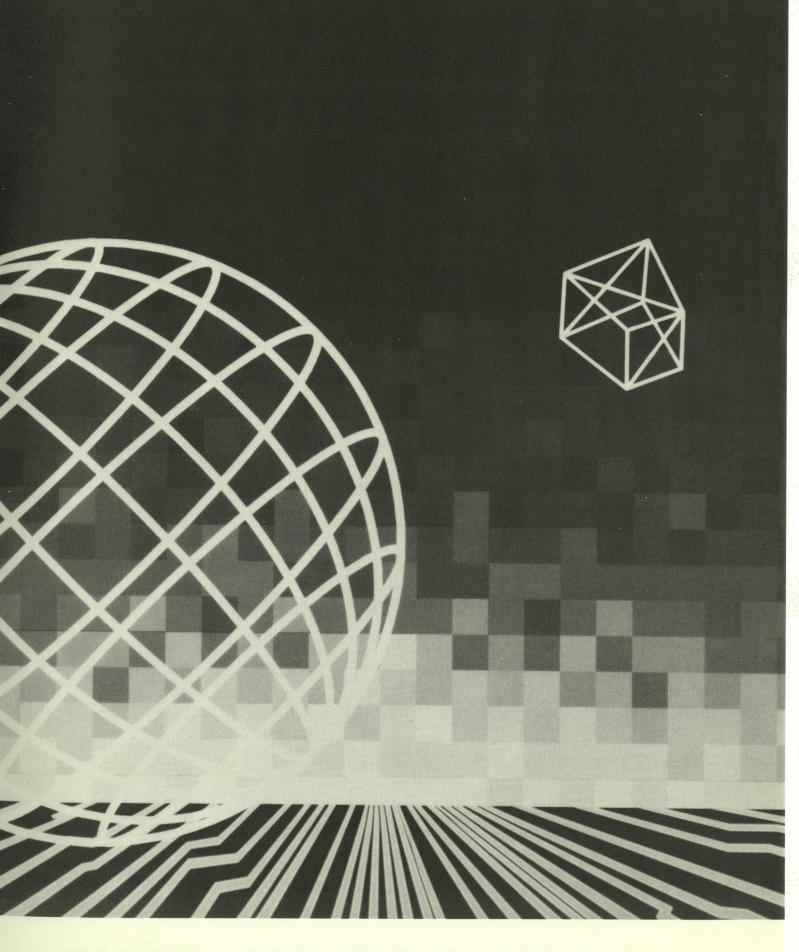
The following are violations and the fines that accompany them:

| - | Parking | | | |
|---|---|---------|--|--|
| | 1. Crosswalk parking | \$ 3.00 | | |
| | 2. Blocking driveway | 5.00 | | |
| | 3. Parking in or blocking fire lanes | 10.00 | | |
| | 4. Disregarding posted signs; no stopping, no parking | | | |
| | loading, tow away zone | 5.00 | | |
| | 5. Parking in a manner to use two stalls | 5.00 | | |
| | 6. Parking disregarding painted lines | 3.00 | | |
| | 7. Parking outside permitted decal areas | 3.00 | | |
| | 8. Parking in reserved areas | 5.00 | | |
| - | Instructional Media Center | | | |
| ' | 0. Wrong direction on a one way street | 15.00 | | |
| | 9. Wrong direction on a one-way street | 15.00 | | |
| | 10. Wreckless operation | 15.00 | | |
| | orms of audio-visual materials such as audio rehto | | | |
| | 11. No parking permit (decal) or not displayed | 5.00 | | |
| • | 12. Vehicle not registered | 5.00 | | |
| | 13. Impoundment | | | |
| | 14. Disregard of barricades | 10.00 | | |
| • | 15. Reproducing, alteration or defacing of a parki | ing | | |
| | decal or permit. Using stolen or revoked permit | | | |
| | decal (Impound) | | | |
| | 16. Overtime parking | 3.00 | | |

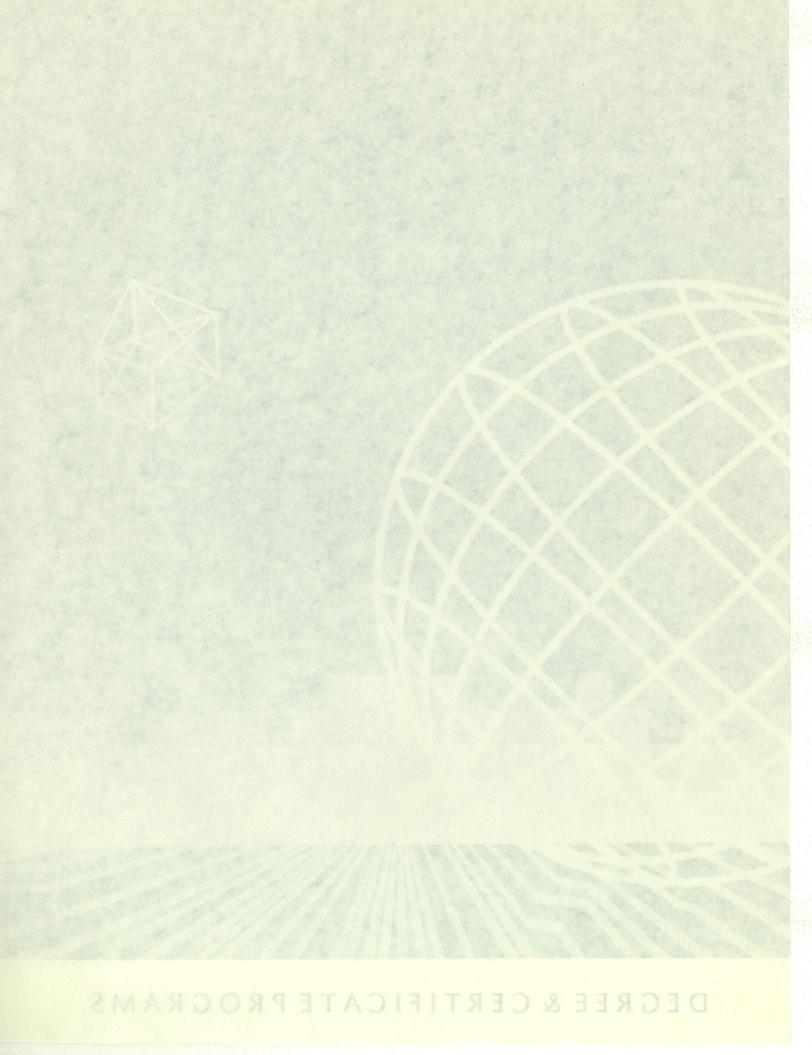
Failure to pay fines will result in the holding of transcripts and prevention of registration until such fines are paid; also prevention from purchasing on-campus parking for future terms.

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.



DEGREE & CERTIFICATE PROGRAMS



Academic Divisions

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

Communication Skills and 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-
- 7. 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 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:

- 1. Understand the basic conceptual framework of the social
- 2. 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
- 3. Grasp the analytical and methodological tools necessary to either control or adapt to changes in a social/psychological

The Writing Center

Individualized Courses-Currently, Communication Skills courses 1001, 1009, 1010 and 1011 are also offered on an individualized basis. Individualized courses being offered each term are designated by the course type I.

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 (569-1736 or 569-1737) answers questions about business communications, technical writing, grammar, punctuation, spelling, capitalization and word usage. The hours are 8:00 a.m. to 8:00 p.m., Monday through Thursday, 8:00 a.m. to 4:00 p.m. Friday, and 9:00 a.m. to 1:00 p.m.

Requirements losdbool bits doisseen swizneste tests bots

To qualify for the associate degree, a student must complete at least 21 credit hours; 12 must be in the communication skills area and 9 in the social sciences area. 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. 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.

To complete the minumum 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.

Listed below are the courses which constitute each of the areas:

Communication Skills

Composition:

1001 English Composition I

1002 English Composition II

1007 Critical Thinking and Writing

1009 Business English

Technical Writing and Business Communications:

1010 Technical Writing

1011 Business Communications

1015 Technical Report Writing

1017 Project Research

1018 Technical Writing Style and Techniques

Oral Communication:

1020 Effective Speaking

1024 Group Dynamics and Problem Solving

1025 Group Dynamics within Organizations

Psychology:

1502 Human Relations - Applied Psychology

1505 Introduction to Psychology I

1506 Introduction to Psychology II

1507 The Psychology of Color

1508 Psychology: Child Development

1509 Psychology: Adult Development

1510 Psychology: Adolescent Development

Economics:

1512 Microeconomics

1513 Macroeconomics
Sociology:
1521 Introduction to Sociology
1523 Social Institutions
1524 Stress Management
1525 Changing Roles for Men and Women
1527 Technology and Ethical Decisions
Community Relations:
1531 Introduction to Political Science
1535 Introduction to Labor Management Relations
1539 Public Policy and the American Worker

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. In the core courses, students practice the writing and editing skills required to enter the profession, by preparing reports, brochures, handbooks, and other documents. Much classwork takes place in the College's Writing Center, where students learn to use computers and "desktop publishing systems" as essential tools for writing and editing. 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.

Students who plan to study Technical Writing & Editing Technology should have previous successful writing experience (in school or on the job), good reading skills, and school or work experience in math, science, or technology.

Technical Writing & Editing Technology Curriculum

| | | lours Pe | r Week | Credit |
|-----------|---------------------------------------|----------|---------|--------|
| | alities | Class | Lab | Hours |
| ■ First 1 | Term | | | |
| **xxxx | Technical Specialty Requirement | . 3 | 3 | 4 |
| **xxxx | Technical Specialty Requirement | 3 | 3 | 4 |
| *1001 | English Composition I | 3 | 0 | 3 |
| 3005 | Administrative Typing | . 2 | 3 | 3 |
| 5001 | Introduction to TWET Careers | _ 1_ | 2 | 2 |
| | | 12 | 11 | 16 |
| | nd Term | leain: | bell a | Of O |
| **xxxx | Technical Specialty Requirement | . 3 | 3 | 4 |
| **xxxx | Technical Specialty Requirement | | 1 | 3 |
| 1017 | Project Research | | 3 | 4 |
| | Technical Writing Style & Techniques | | 5 | 4 |
| 3061 | Word/Information Processing I | 1 1 36 | 4 | 3 |
| | | 12 | 16 | 18 |
| ■ Third | | 3 | guiori | Psyc |
| 9701 | Co-Op Employment TWET Technology | mater | 40 | 3 |
| | h Term II y golodoyy For noi | roubor | 06 Inti | 15 |
| **xxxx | Technical Specialty Requirement | . 3 | 3 | 4 |
| | Microeconomics | | 0 | 3 |
| | Word/Information Processing II | | 4 | 3 |
| | Planning & Preparing the Illustration | | 2 | 3 |
| 5040 | Critical & Creative Thinking | | 3 | 3 |
| | | 11 | 12 | 16 |

| Fifth 7 9702 | Co-Op Employment TWET Technology | 1 | 40 | 3 |
|--------------|---|------------|----------|------|
| Sixth | Term | | L _ | - |
| **xxxx | Technical Specialty Requirement | 3 | 3 | 4 |
| **XXXX | Technical Specialty Requirement | 3 | 3 | 4 |
| | Group Dynamics & Problem Solving | 3 | 0 | 3 |
| | Writing Instructional Documents | 2 | 5 2 | 4 |
| 5041 | Technical Editing Methods I | 2 | 2 | 3 |
| | | 13 | 13 | 18 |
| Seven | nth Term | Delvi | lone es | One |
| 9703 | Co-Op Employment TWET Technology | 1 | 40 | 3 |
| | h Term | alle de la | - | Day. |
| | Technical Specialty Requirement | 3 | 3 | 4 |
| | Technical Presentations | 3 | 2 | 4 |
| 5033 | Writing Promotional Documents | 2 | 5 | 4 |
| 5042 | Technical Editing Methods II | 2 | 2 | 3 |
| 5051 | Organizational Dynamics/Career Assess | 3 | 1 | 3 |
| | | 13 | 13 | 18 |
| ■ Ninth | Term | | | |
| 9704 | Co-Op Employment TWET Technology | oly | 40 | 2 |
| ■ Tenth | | mirro | | arli |
| **xxxx | Technical Specialty Requirement | 3 | 0 | 3 |
| 15xx | Social Science Elective | 3 | 0 | 3 |
| 15xx | Social Science Elective | 3 | 0 | 3 |
| 5089 | Technical Communication Seminar | 1 | 6 | 3 |
| | te Division offers students a proven pi | 10 | 6 | 12 |
| | | to ale | Milleren | 1.00 |

^{*}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 help students plan an appropriate curriculum in their preferred technical specialty area. The samples that follow show some of the technical courses recommended 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 Pe | Hours Per Week | |
|------|-----------------------------------|-----------------|----------------|-------|
| | | Class | Lab | Hours |
| 1124 | Business Algebra | 4 | 0 | 4 |
| 1127 | Business Statictics | 4 | 0 | 4 |
| 1135 | "C" Programming Language | 2 | 2 | 3 |
| | Introduction to Data Processing | | 0 | 3 |
| 1702 | Introduction to BASIC Programming | 2 | 3 | 3 |
| 1721 | Programming Logic & Methods | 2 | 3 | 3 |
| 1742 | COBOL Programming I | 3 | 7 | 6 |
| 1763 | Systems Analysis & Design | 3 | 7 | 5 |
| | Software Documentation | | 2 | 3 |

Sample B - Health Technologies Documentation and Report Writing

| il Sciences | Hours Pe | Hours Per Week | |
|--|----------|----------------|-------|
| | Class | Lab | Hours |
| 2232 Fundamentals of Organic Chemistry | . 3 | 2 | 4 |
| 2233 Fundamentals of Biochemistry | . 3 | 2 | 4 |
| 4000 Introduction to Medical Terminology | . 3 | eotei: | 3 |
| 4001 Introduction to Health Care Systems | | 0 | 2 |
| 4009 General Microbiology | . 3 | 3 | 4 |

| 4014 Anatomy & Physiology I | 3 | 2 | 4 |
|-----------------------------------|---|---|---|
| 4015 Anatomy & Physiology II | 3 | 2 | 4 |
| 4016 Anatomy & Physiology III | 3 | 2 | 4 |
| 4408 Advanced Medical Terminology | 3 | 0 | 3 |

Sample C - Engineering Documentation and Report Writing

| | Hours Pe | r Week | Credit |
|---|----------|--------|--------|
| F 0 F 200 | Class | Lab | Hours |
| 1191 Algebra & Trigonometry I | 4 | 0 | 4 |
| 1192 Algebra & Trigonometry II | 4 | 0 | 4 |
| 2291 Physics I | 3 | 2 | 4 |
| 7010 Engineering Drawing I | 2 | 3 | 3 |
| 7130 Engineering Mechanics | 3 | 2 | 3 |
| 7132 Hydraulics & Pneumatics | 3 | 2 | 3 |
| 7142 Mechanisms Analysis & Design | | 2 | 3 |
| 7160 Computer Aided Drafting I-Mechanical | 2 | 3 | 3 |
| 7708 Electrical Fundamentals & Controls | 3 | 2 | 3 |
| | | | |

Sample D - Industrial Testing and Research Report Writing

| | Hou | | r Week | Credit |
|------|--|-------|--------|--------|
| N | Name of the second seco | Class | Lab | Hours |
| 1191 | Algebra & Trigonometry I | . 4 | 0 | 4 |
| 2291 | Physics I | . 3 | 2 | 4 |
| 2293 | Physics III | . 3 | 2 | 4 |
| | Chemistry I & Quantitative Analysis | | 3 | 4 |
| | Chemistry II & Quantitative Analysis | | 3 | 4 |
| 6629 | Industrial Materials Testing I | . 3 | 2 | 4 |
| 6631 | Chemistry III & Quantitative Analysis | . 3 | 3 | 4 |
| 6639 | Fundamentals of Physical Measurement | . 3 | 2 | 4 |
| | | | | |

Sample E - Technical Writing & Editing Certificate Hours Per Week Credit

| | | | Hours Pe | r Week | Credit |
|---|------|---|-----------------|--------|--------|
| _ | | | Class | Lab | Hours |
| | 1017 | Project Research | 3 | 3 | 4 |
| | 1018 | Technical Writing Style & Techniques 2 | 5 | 4 | |
| | 5001 | Introduction to TWET Careers | 1 | 2 | 2 |
| | 5002 | Introduction to Computer-Assisted | 2 | 2 | 3 |
| | | Writing | | | |
| | xxxx | Computer Skills Elective | 2 | 2 | 3 |
| | 5010 | Planning and Preparing Illustrations | 2 | 2 | 3 |
| | 5015 | Technical Publication Production | 2 | 2 | 3 |
| | 5016 | Computer-Assisted Publishing | 2 | 2 | 3 |
| | 5022 | Technical Presentations | 3 | 2 | 4 |
| | 5032 | Writing Instructional Documents | 2 | 5 | 4 |
| | 5033 | Writing Promotional Documents | 2 | 5 | 4 |
| | | Critical & Creative Thinking | | 3 | 3 |
| | | Technical Editing Methods&Techniques I . | | 2 | 3 |
| | 5042 | Technical Editing Methods&Tehcniques II . | 2 | 2 | 3 |
| | 5051 | Organizational Dynamics & Career Asses. | 3 | 1 | 3 |
| | | Technical Communication Seminar | | 6 | 3 |

Developmental Education Program

The Developmental Education program consists of several parts which assist students in preparing for their technical programs.

Courses managed bas beard

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 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 determining progress.

The following courses are offered:

| | Tochanlanian | Credits |
|-------|------------------------------|---------|
| #0001 | English Grammar | 4 |
| #0002 | College Spelling | 3 |
| #0003 | Basic Writing I | 4 |
| #0004 | Basic Writing II | |
| #0007 | Telephone Techniques | 1 |
| #0008 | Oral Reports | 2 |
| #0010 | College Reading I | 4 |
| #0011 | College Reading II | 4 |
| #0012 | Technical Reading I | 4 |
| #0013 | Technical Reading II | 4 |
| #0014 | College Study Skills | |
| #0017 | Speed Reading | |
| #0020 | Basic Mathematics I | |
| #0021 | Basic Mathematics II | |
| #0022 | Essentials of Mathematics | 6 |
| #0024 | Basic Algebra I | 4 |
| #0025 | Basic Algebra II | 4 |
| #0030 | Basic Concepts of Biology | |
| #0027 | Pre Tech Health Math | |
| #0031 | Basic Concepts of Chemistry | 4 |
| #0040 | Interpersonal Development | |
| #0041 | Interpersonal Communications | |
| 0042 | Interpersonal Skills | 4 |
| 0049 | College Orientation | 10.00.1 |
| 0057 | Pre-Accounting | 4 |
| | | |

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 from 8:30 A.M. to 3:00 P.M., Monday through Friday, and Monday evenings from 6:00 P.M. to 9:00 P.M.

Learning Lab

DE offers an open lab with Apple and IBM computers, VCR equipment, Didactor machines and cassette players for students use. Instructional materials in Math, Biology, Chemistry, Physics, Accounting, Computer Programming, Engineering, Reading, Grammar and Spelling are available. There are also drop-in "Help Sessions" on selected topics where students can come and get help one-on-one. Located on the mezzanine of the Learning Resource Center, the Lab is open in the afternoon for all CTC students.

Services for Handicapped and Learning Disabled Students

Students, who because of a permanent disability need academic accomodations, are encouraged to contact the Learning Specialist located in Room 266A. Services include readers, proctors, note takers, taped text books, blank tapes, tape recorders and computer access. There is no fee for these services.

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 fee for this service.

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 associate degree and certificate programs which are clinically intensive and prepare students to perform immediately upon graduation. 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 fifty different hospitals and other health care agencies and institutions to provide clinical experiences for health students. All programs are accredited or approved by their respective professional bodies (if accreditation or approval is available).

Prerequisites for all programs are available at CTC.

Dietetic Technician - Nutrition Care (DTNC)

The Dietetic Technician is a professional in the challenging and ever-changing field of nutrition and dietetics. A Dietetic Technician is employed in the nutrition department of a hospital, nursing home, extended care facility, health maintenance organization, school or day care center. The graduate also may secure a position in a clinic, health department, or with a federal, state or local nutrition program or agency.

The technician assumes a wide range of responsibilities assisting the registered dietitian in nutrition care and departmental administration. The Dietetic Technician may be responsible for many aspects of health care from nutrition care and education of clients to the management of the food service facility. Activities in which the technician is involved include assessing a client's nutritional status utilizing appropriate assessment tools, teaching valuable nutrition concepts to individuals of varied age groups and social backgrounds, planning menus and diet modifications, training and scheduling food service employees, and supervising food production and service.

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.

Dietetic Technician Curriculum

| | Hours Per | Week | Credit |
|---|------------------|------|--------|
| Located on the mezzanine of the Learning | Class | Lab | Hours |
| First Term 1000119116 915 nt 10900 81 dall 91 | | | |
| 4000 Introduction to Medical Terminology | 3 | 1230 | 3 |

| 4001 | Introduction to Health Care Systems | 2 | 0 | 2 |
|--------------|--|-----------------|-----------|----------------|
| | Introduction to Health Care Systems Chemistry for Health Technologies | | | 4 |
| | Fundamentals of Nutrition | 4 | 0 | 4 |
| | Diet Orientation & Dir Practice I | | | 801 |
| | Food Management | - | 6 | 4 |
| 4121 | rood Management | | | |
| | | 15 | 12 | 18 |
| | nd Term | elbi- | W to | Taras Taras |
| 9300 | Co-Op Employment Health Technology | 1 | 40 | 2 |
| Third | Term English Composition I | 3 | 0 | 3 |
| | Human Relations | 3 | 0 | 3 |
| | Nutrition for Lifecycle | 4 | 0 | 4 |
| 4112 | Dietetics Directed Practice II | | 8 | se 1 |
| 4124 | Food Service Sanitation Certification | 2 | 0 | 2 |
| | Food Science | | 3 | 3 |
| 8 | Mechanics | | | 0.0 |
| E | & Pneumatics | 14 | 11 Indian | 16 |
| | h Term Co-Op Employment Health Technology | meine A 1400 | 40 | 2 |
| 9300 | Co-Op Employment Fleatur lectinology | cal Fi | 40 | 80.4 |
| Fifth 7 4014 | Ferm Anatomy and Physiology I | 3 | 2 | 4 |
| 4030 | Technology of Education for Health | 1- | 3 | 2 |
| | Clinical Nutrition I | 4 | 0 | 4 |
| | Dietetics Directed Practice III | 0 | 8 | 1 |
| | Institutional Food Systems I | 2 | 3 | 3 |
| | Quantity Food Production | 2 | 3 | 3 |
| berto | Josef 107 2000H | | | - |
| Hope | Class Leb | 12 | 19 | 17 |
| Sixth | | 12 81 | Algeb | 1191 |
| | English Composition Elective | 3 | 0 | 3 |
| 1850 | Computerized Business Applications | 2 | 3 | 3 |
| 4015 | Anatomy and Physiology II | 3 | 2 | 4 |
| 4031 | Health Care Management | 3 | 0 | 3 4 |
| | Clinical Nutrition II | 4 | 0 | |
| 4114 | Dietetics Directed Pracice IV | 0 | 10 | 2 |
| | | 15 | 15 | 19 |
| | th Term | 2 | 0 | 3 |
| | Group Dynamics & Problem Solving | 3 | | |
| | Social Science Elective | 3 | 0 | 3 |
| | Anatomy and Physiology III | 3 | 2 2 | 4 |
| | Clinical Nutrition III | 4 | 0 | 4 |
| | Dietetics Directed Practice V | 0 | 10 | 2 |
| 4113 | looky and ampale | | | _ |
| mort. | Class Lab | 16 | 14 | 19 |
| | n Term | ct Res | Projec | 101 |
| 9300 | Co-Op Employment Health Technology | Crimic | 40 | 2 |
| | Term Spenies Assistance Assistanc | iuctio | octini 3 | 5002 |
| | Technical Writing Elective | | | 3 |
| | Social Science Elective | | 0 | 3 |
| | Community Nutrition | market and a | 0 | 4 |
| | Dietetics Seminar | _ | 0 | 2 |
| | Dietetics Directed Practice VI | and the same | 8 | 1 |
| | DTNC Homecare Directed Practice | | 5 | 1 |
| 4129 | Institutional Food System II | 1 | _ 5 | _3 |
| | | 13 | 18 | _ 17 |
| | | | | 112 |
| | | | | LAP |
| Course | 4117 may also be taken in terms 6, 7, or 8. | | | |

*Course 4117 may also be taken in terms 6, 7, or 8. English Composition Electives: 1002, 1007, 1008, 1010 Social Science Electives: (At least 2 groups must be represented.)

Group 1 - Psychology: 1505, 1506, 1508, 1509, 1510

Group 2 - Economics: 1512, 1513

Group 3 - Sociology: 1521, 1523, 1524, 1525, 1527

Group 4 - Government: 1531, 1535, 1539 Technical Writing Elective: 1010, 1015

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 one year certificate program prepares a person to perform dietary supervisor functions in many types of facilities. The program, attended on a part-time basis, encourages employment and course work combined. Two terms of cooperative work experience or the equivalent are a certificate requirement.

Upon graduation, Dietary Managers are employed in nursing homes, retirement facilities, hospitals, schools, handicap institutions and business. Job activities might include food distribution supervision, employee hiring, training, scheduling and evaluation, inventory controls, safety and sanitation controls and food production supervision.

This program has national approval by the Dietary Managers Association. Following the certification examination, membership in this professional organization is encouraged.

Dietary Manager Technology Certification Curriculum

| | Hours Pe | Hours Per Week | |
|--|--------------------|----------------|--------|
| the state of the s | Class | Lab | Hours |
| First Term | | | |
| 4130 Introduction to Nutrition | 3 | 0 | 3 |
| 4141 Dietary Manager's Orientation | 1 | 3 | 2 |
| | 4 | 3 | 5 |
| Second Term | n Compositi | Engn3 | FOUT |
| 4121 Food Management | 2 | 6 | 4 |
| 4124 Food Service Sanitation Certification | 2_ | 0 | 2 |
| | 4 | 6 | 6 |
| Third Term | n h Linita Voor | skeaid | TREA |
| 4105 Introduction to Clinical Nutrition | 2 | 2 | 3 |
| 4112 Dietetics Directed Practice II | | 8 | 1 |
| 4122 Institutional Food Systems I | | 3 | 3 |
| 9300 Co-Op Employment Health Technology | <u>1</u> | 40 | 2 |
| | 5 | 53 | 9 |
| Fourth Term | | | |
| 4125 Quantity Food Production | 2 | 3 | 3 |
| 4147 Dietetic Manager Seminar | | 0 | |
| 4155 Basic Mgt Tech Food Service | 2 | | 22 |
| | 5 | 3 | 6 |
| Fifth Term OHS BRIGHWARDOOD, abroom the | aining pati | maint | Jnent, |
| 4143 Food Systems Mgt Direct Practice III | | 8 | 2 |
| 9300 Co-Op Employment Health Technology | e.d. <u>e.1</u> | 40 | 2 |
| | 2 | 48 | 4 |
| | | | 30 |

Electrocardiograph Technician (EGRT)

The ECG Technician is the entry-level position for 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 mov-

ing 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 an ECG technician in the hospital, clinic or private physician's office.

Electrocardiograph Technician Curriculum

| | Hours Pe | r Week | Credit |
|--|------------|--------|--------|
| E O E polylog Salving 3 0 3 | Class | Lab | Hours |
| First Term E Instruction Instruction | | | |
| 1502 Human Relations | 3 | 0 | 3 |
| 4000 Introduction to Medical Terminology | 3 | 001 | 3 |
| on of Laboratory Values 3 0 3 | 6 | 1 | 6 |
| ging 3 0 3 | A to ygolo | Physic | 4815 |
| Second Term | | | |
| 4770 Basic Electrocardiography | 3 | 2 | 4 |
| 0-1-7 | | Term | Sixth |
| Third Term I yeolondool dileal mem | | | 9300 |
| 4771 Arrhythmia Recognition | 3 | 0 | 3 |
| 4780 ECG Clinical Practice | 0 | 20 | Stre |
| | 01 13 00 | 20 | 4 |
| | nunity He | Comm | SUUP |
| | | | 14 |

Geriatric Technician Program (GER)

The purpose of the Geriatric Technician Program is to prepare technicians who possess skills in the care of the geriatric client in nursing homes, adult day care centers, home health agencies, retirement communities, community health centers, shared or assisted housing facilities, senior centers and hospitals in the Greater Cincinnati area.

The Geriatric Technician is a skilled health care technician qualified by academic and clinical training to provide case management in both individual and group plans. This technician will also provide input and assistance to other health care professionals in home and health care settings to address the needs and wants of the geriatric client.

The objectives of the program are to prepare the graduates to demonstrate multiple entry-level skills in the following areas: observe and react to changes in normal behavior patterns; physical, psychological, emotional, and spiritual needs of the geriatric client; observe, recognize, and report pathophysiological conditions; participate in case management documentation; facilitate and motivate individual and group activity skills; serve as an advocate for social programs and agencies and make appropriate referrals for the geriatric client; assist the geriatric client in the correct use of medications; address death and dying rights; and be creative, innovative and able to facilitate and participate in improving the general health skills of the geriatric client and continue to update multiple skills to guarantee delivery of qualified services.

Geriatric Technician Curriculum

| | ordinators must have good communi | Hours Pe | r Week | Credit |
|-----------|---|----------|--------|--------|
| DR6 93 | tactful with all people, ability to organia | Class | Lab | Hours |
| ■ First 7 | ferm 180m9 one legal and to gribneres | abnu t | | mong |
| 1001 | English Composition I | . 3 | 0 | 3 |
| 4000 | Introduction to Medical Terminology | . 3 | Usqui. | 3 |
| 4001 | Introduction to Health Care System | . 2 | 0 | 2 |
| 4014 | Anatomy and Physiology I | . 3 | 2 | 4 |

| 4800 | Patient Care Skills | . 0 | 2 2 | 1 4 |
|---------|--|------------|----------------------|-------|
| | | 14 | 7 | 12 |
| | d Term | H ba | s serius s | i aai |
| 9300 | Co-Op Emp oyment Health Technology | 1 1 | 40 | 2 |
| Third | | amiA | orte too orte ort | ha |
| | English Composition II | . 3 | 0 | 3 |
| | Human Relations | | 0 | 3 |
| | Introduction to Psychology I | | 0 | 3 |
| | Anatomy and Physiology II | | 2 | 4 |
| | Introduction to Nutrition | | 0 | 3 |
| 4805 | Activity Therapy | | | _3 |
| | | 17 | 4 | 1 |
| | h Term | 671 | uluoi | H |
| 9300 | Co-Op Employment Health Technology | . 1 | 40 2 | |
| Fifth 1 | | | | |
| | Group Dynamics & Problem Solving | | 0 | 3 |
| | Psych: Adult Development | | 0 | 103 |
| | Anatomy and Physiology III | | 2 | 4 |
| | Introduction to Clinical Nutrition | | 2 | 000 |
| 4394 | Interpretation of Laboratory Values 3 | 0 | 3 | ١, |
| 4815 | Physiology of Aging | | 0 | _3 |
| | | 17 | 4 | 1 |
| Sixth | | | | |
| 9300 | Co-Op Employment Health Technology | . 1 | 40 | 2 |
| | th Term | hound | D 2038 | 780 |
| | Introduction to Sociology | | 0 | 3 |
| | Community Health Services | | 0 | 2 |
| 4007 | Emergency Medical Procedures | . 1 | 2 | 2 |
| 4020 | Fundamentals of Pathophysiology | . 5 | 0 | Ī |
| 4830 | Mental Health & The Elderly | . 3 | 2 | 1 |
| | | 177 | 7 | 20.7 |
| | Term Co-Op Employment Health Technology | 1 | 40 | ini |
| 3300 | co-op Employment realth technology | bs ,es | mon s | mie |
| | Term Technical Writing I | 3 | 0 | nie) |
| | Essentials of Pharmacology | | 0 | oto 5 |
| | Health Care Management | | 0 | 3 |
| | Aging and Disease | | 0 | |
| | Geriatric Care Seminar | | 0 | |
| ,550 | ssistance to other health care profession | 19 | 0 | 1 |
| Tenth | Torm | ملفاء د | ad bes | Chris |
| | Co-Op Employment Health Technology | . 1 | 40 | 28 |
| 9300 | co-op Employment realth lecthology | (a) 10 (a) | | |

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, ability to organize and prioritize and 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 proce-

dures and communication skills. The last term consists of a fiveweek 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 Certificate Curriculum

| | | Hourste | Hours I et Week | |
|---------|-------------------------------------|----------------|-----------------|-----|
| redra | g the certification examination, me | Class | Lab | Ho |
| First 7 | d organization is encouraged. | | | |
| 4000 | Introduction to Medical Terminology | 3 | 1 | 3 |
| 4001 | Introduction to Health Care Systems | 2 | 0 | 635 |
| 4270 | Orient. Health Unit Coordination | 3 | 0 | |
| | | 8 | 1 | 8 |
| Seco | nd Term | | | |
| 3001 | Typewriting I | 2 | 3 | 3 |
| 4271 | Health Unit Coordinating I | 2 | 4 | 4 |
| 4408 | Advanced Medical Terminology | 3 | 0 | |
| | | 7 | 7 | 1 |
| Third | Term | | | |
| | English Composition I | | 0 | |
| 1502 | Human Relations | 3 | 0 | |
| 4272 | Health Unit Coordinating II | 2_ | 4 | |
| | | 8 | 4 | 1 |
| Fourt | h Term | garden and the | | |
| | Health Unit Coordinating Practicum | 2 | 20 | (|
| 4281 | | | | |

Medical Assistant Technology (MAC) (MA)

The Medical Assistant program trains students to work in physicians' offices providing patient care and performing administrative tasks. The administrative tasks performed include filing, scheduling appointments, handling correspondence, patient management, maintaining patient records, bookkeeping and completing insurance forms. The clinical tasks performed involve taking and recording medical histories, preparing patients for examinations, assisting with examinations and office surgeries, measuring vital signs, performing routine laboratory work, x-rays, EKG's and giving injections.

The Medical Assistant program offers two options for the student: students can complete one year for a technical certificate or continue on to the second year, receiving an Associate Degree upon completion. The first year of the program prepares the student with entry-level job skills. The second year of the program adds additional management, occupational and education skills. 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 or Allied Health Education and Accreditation (CAHEA) in collaboration with the American Association of Medical Assistants (AAMA).

Upon successful completion of the program, either the one or two year, graduates are eligible to take the examination to become a Certified Medical Assistant (CMA).

Medical Assistant Certificate Curriculum

| | | Hours Per | Week | Credi |
|---------|--------------------------------------|-----------|---------|-------|
| | E | Class | Lab | Hours |
| First 1 | | | | |
| 4000 | Introduction to Medical Terminology | | 1 | 3 |
| 4041 | Integrated Science I | 3 | 2 | 4 |
| 4200 | Medical Office Practice I | 2 | 3 | 3 |
| | Clinical Procedures I | | 3 | 3 |
| 4204 | Medical Lab Procedures I | 2_ | _3_ | _ 3 |
| | | 12 | 12 | 16 |
| | nd Term | aqua qu | | uce |
| | Business English | 3 | 0 | 3 |
| 4042 | Integrated Science II | 3 | 2 | 4 |
| 4201 | Medical Office Practice II | | 3 | 3 |
| | Clinical Procedures II | 2 | 3 | 3 |
| 4441 | Medical Word Processing Operations I | 1 | 3 | 3 |
| | | 11 | 11 | 16 |
| Third | Term | | and the | |
| 4211 | MA Clinical Experience I | 0 | 21 | 3 |
| | h Term | - Alexan | Y Altro | COLOR |
| 1505 | Introduction to Psychology I | 3 | 0 | 3 |
| 4007 | Emergency Medical Procedures | | 2 | 2 |
| 4043 | Integrated Science III | 3 | 2 | 4 |
| 4205 | Medical Lab Procedures II | 2 | 3 | 3 |
| 4208 | Insurance/Patient Records | 2 | 2 | 3 |
| | | 11 | 9 | 15 |
| Fifth 1 | ferm . | | | |
| | Introduction to Psychology II | | 0 | 3 |
| 2909 | Office Accounting I | 3 | 2 | 3 |
| 4018 | Essentials of Pharmacology | 3 | 0 | 3 |
| 4209 | Medical Assistant Seminar | 2 | 4 | 3 |
| 4212 | MA Clinical Experience II | 0 | 21 | 3 |
| | | 11 | 27 | 15 |
| | | mag kanit | o Make | 65 |
| | | | | 03 |

Medical Assistant Technology Curriculum

| | | Hours Per Week | | Credit |
|---------|-------------------------------------|----------------|-------|-------------|
| | ELECTIVES: IDUZ, IDUZ, IDUB, ICID | Class | Lab | Hours |
| First 7 | [erm | | | |
| 100x | English Composition Elective | | 0 | 3 |
| 4001 | Introduction to Health Care Systems | . 2 | 0 | 2 |
| 4131 | Developmental Nutrition | . 2 | 0 | 2 |
| 4224 | Advanced Clinical Procedure | . 2 | 3 | 2 3 3 |
| 4408 | Advanced Medical Terminology | . 3 | 0 | 3 |
| | | 12 | 3 | 13 |
| Seco | nd Term | Prog | nois | THE P |
| 1011 | Business Communications | | 0 | 3 |
| 1024 | Group Dynamics & Problem Solving | . 3 | 0 | 3 |
| 1527 | Technical & Ethical Decisions | | 0 | 3 |
| 4206 | Medical Laboratory Procedures III | . 2 | 3 | 3 |
| | | 11 | 3 | 12 |
| Third | Term | ar ensi | JOSTS | ent . |
| 4213 | MA Clinical Experience III | . 0 | 21 | 3 |
| Fourt | h Term | tives or | pojdo | The |
| | Social Science Elective | | 0 | 3 |
| 15xx | Social Science Elective | . 3 | 0 | 3 |
| 1509 | Psychology: Adult Development | . 3 | 0 | 3 |
| 4031 | Health Care Management | . 3 | 0 | 3 |
| 4209 | Medical Assistant Seminar | 2 | 4 | 3 |
| | | 14 | 4 | 15 |
| | | | | 43 |
| | | | | 73 |

English Composition Electives: 1001, 1002

Social Science Electives: 1502, 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 banks 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 collaboration 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 Technology Curriculum

| | | Hours Pe | r Week | Credit |
|---------|-------------------------------------|-----------------|---------|--------|
| utitani | ems found in the modern health care | Class | Lab | Hours |
| First 7 | Term . | | | |
| 1001 | English Composition I | 3 | 0 | 3 |
| | Math Elective | | 0 | 4 |
| 2231 | Fundamentals of Inorganic Chemistry | 3 | 2 | 4 |
| 4014 | Anatomy and Physiology I | 3 | 2 | 4 |
| 4301 | Basic Laboratory Techniques | 1 | 3 | 2 |
| | | 14 | 7 | 17 |
| | nd Term | nomA s | edt lo | nation |
| 2232 | Fundamentals of Organic Chemistry | 3 | 2 | 4 |
| | Anatomy and Physiology II | | 2 | 4 |
| 4302 | Basic Hematology & Urinalysis | 4 | 6 | 6 |
| 4350 | Orientation to the Clinical Lab | 1 | 9 | 2 |
| | | 11 | 19 | 16 |
| ■ Third | | | | |
| 2233 | Fundamentals of Biochemistry | 3 | 2 | 4 |
| 4016 | Anatomy and Physiology III | 3 | 2 | 4 |
| 4304 | Clinical Chemistry | 4_ | _6_ | 6 |
| | | 10 | 10 | 14 |
| ■ Fourt | h Term | neusub | CHICH C | 400 |
| 102x | Oral Communication Elective | 3 | 0 | 3 |
| 15xx | Social Science Elective | 3 | 0 | 3 2 |
| | Introduction to Health Care Systems | | 0 | |
| 4023 | Immunology | 3 | 0 | 3 |

| | Endiver 150 | 12 | lei: |
|--|---|----------|------|
| Fifth Term | | | |
| 4353 Medical Lab Clinical Practice | olino di J | 40 | |
| Sixth Term | ell vanterode | F bendh | Acu |
| 15xx Social Science Elective | 3 | 0 | |
| 4009 General Microbiology | 3 | 3 | |
| 4305 Blood Banking - Serology | 4_ | 6 | TI B |
| | 10 | 9 | |
| Seventh Term | rithe health i | part c | 6// |
| 9300 Co-Op Employment Health Technolog | gy 1 | 40 | |
| Eighth Term | veril or may | w yout | 510 |
| 100x English Composition Elective | 3 | 0 | |
| 15xx Social Science Elective | 3 | 0 | |
| 4306 Clinical Microbiology | 4 | 6 | 263 |
| 4308 Special Laboratory Procedure | ter mend a | 3 | |
| | d theothrom | 9 | b91 |
| Ninth Term | ne hemoglo Letain elide | etermi | h h |
| 9300 Co-Op Employment Health Technolog | gy 1 | 40 | nui |
| Tenth Term | racje animax Saulites mod | - bast | Loc |
| 101x Technical Writing Elective | 3 | 0 | |
| 4020 Fundamentals of Pathophysiology | 5 | 0 | 9111 |
| 4316 Laboratory Practicum II | 0 | 12 | 86 |
| | 8 | 12 | 1 |
| | rience and | ecixe v | 1 |
| glish Composition Electives: 1002, 1007, 1008 | 8 1010 | | |
| ath Electives: 1151, 1153, 1154, 1191 | 0, 1010 | | |
| ral Communication Electives: 1020, 1024 | | | |
| cial Science Electives: (At least 2 groups must | t he represente | (be | |
| oup 1 - Psychology: 1502, 1505, 1506, 1508, | 1509, 1510 | diseaso: | |
| Group 2 - Economics: 1512, 1513 | | | |
| Group 3 - Sociology: 1521, 1523, 1525, 1527 | | | |
| Group 4 - Government: 1531, 1535, 1539 chnical Writing Electives: 1010, 1015 | | | |
| ciffical virtuing Liectives. 1010, 1013 | | TIMA P | |

Medical Record Technician (MR)

Medical Record Technicians are responsible for preparing, analyzing and preserving health information in hospitals, clinics, nursing homes, insurance companies and health maintenance organizations. The technician has both medical and information processing knowledge necessary to manage the complex and computerized systems found in the modern health care institution.

Students spend every other term in paid cooperative education experience.

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

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 Record Technician Curriculum

| | b | lours Pe | r Week | Credit |
|--|--------|----------|--------|--------|
| A A A A A A A A A A A A A A A A A A A | tolere | Class | Lab | Hours |
| ■ First Term | | | | TO BE |
| 1001 English Composition I | | . 3 | 0 | 3 |
| 4000 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 | 3 300 | 4 | 3 | 5 |
| | | 15 | 6 | 17 |

| Fourth Term | Third Term | | And Andrews | | | |
|--|---|-------|--|---------|-----------------------|-------------|
| Third Term | Third Term | | | TEA SAN | 0E3-490 | F - 78 |
| 100x English Composition Elective 3 0 1502 | 100x English Composition Elective | 9300 | Co-Op Employment Health Technology | 1 | 40 | 2 |
| 100x English Composition Elective 3 0 1502 Human Relations 3 0 4015 Anatomy and Physiology II 3 2 4408 Advanced Medical Terminology 3 0 4415 Legal Aspects of Rec in Health Care 3 1 4441 Medical Word Processing Operations I 1 4 4441 Medical Word Processing Operations I 1 4 40 16 7 Fourth Term 9300 Co-Op Employment Health Technology 1 40 Fifth Term 102x Oral Communication Elective 3 0 4016 Anatomy and Physiology III 3 2 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 | 100x English Composition Elective | Third | Term | _ | | ig T |
| 1502 Human Relations 3 | 1502 Human Relations | | | 3 | 0 | 3 |
| 4015 Anatomy and Physiology 1 3 2 2 4408 Advanced Medical Terminology 3 0 0 0 0 0 0 0 0 0 | 4015 Anatomy and Physiology 3 2 4408 Advanced Medical Terminology 3 0 0 0 0 0 0 0 0 0 | 1502 | Human Relations | | | 3 |
| 4408 Advanced Medical Terminology 3 0 4415 Legal Aspects of Rec in Health Care 3 1 4441 Medical Word Processing Operations I 1 4 16 7 Fourth Term 9300 Co-Op Employment Health Technology 1 40 Fifth Term 102x Oral Communication Elective 3 0 4016 Anatomy and Physiology III 3 2 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 5 5 1 7 Sixth Term 9300 Co-Op Employment Health Technology 1 40 Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Fighth Term | 4408 Advanced Medical Terminology 3 0 4415 Legal Aspects of Rec in Health Care 3 1 4 4441 Medical Word Processing Operations 1 4 16 7 | | | - | Access to the last of | 4 |
| 4415 Legal Aspects of Rec in Health Care 3 1 4441 Medical Word Processing Operations I 1 4 16 7 Fourth Term 9300 Co-Op Employment Health Technology 1 40 Fifth Term 102x Oral Communication Elective 3 0 4016 Anatomy and Physiology III 3 2 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 5 14 7 Sixth Term 9300 Co-Op Employment Health Technology 1 40 Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Fighth Term 9300 Co-Op Employment Health Technology 1 40 <tr< td=""><td> 4415 Legal Aspects of Rec in Health Care 3 1 4 4441 Medical Word Processing Operations 1 4 4 </td><td>4408</td><td>Advanced Medical Terminalogy</td><td></td><td>The second second</td><td>001</td></tr<> | 4415 Legal Aspects of Rec in Health Care 3 1 4 4441 Medical Word Processing Operations 1 4 4 | 4408 | Advanced Medical Terminalogy | | The second second | 001 |
| 1 | 1 | 1415 | Logal Aspects of Boo in Harlth Care | | | |
| Fourth Term 9300 Co-Op Employment Health Technology 1 40 | Fourth Term 9300 Co-Op Employment Health Technology 1 40 | 4415 | Addical Mord Branching Operation | PR 7 | Land of the | 4 |
| Fourth Term 9300 Co-Op Employment Health Technology | Fourth Term 9300 Co-Op Employment Health Technology 1 40 | 4441 | Medical Word Processing Operations I | | 4 | 3 |
| Fifth Term 102x Oral Communication Elective 3 0 4016 Anatomy and Physiology 1 3 2 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 5 | Fifth Term 102x Oral Communication Elective 3 0 4016 Anatomy and Physiology III 3 2 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 5 5 5 5 5 5 5 | | | 16 | 7 | 2 |
| Fifth Term 102x Oral Communication Elective 3 0 4016 Anatomy and Physiology 1 3 2 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 5 | Fifth Term 102x Oral Communication Elective 3 0 4016 Anatomy and Physiology III 3 2 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 5 5 5 5 5 5 5 | Fourt | h Term | | | |
| Fifth Term 102x Oral Communication Elective 3 0 4016 Anatomy and Physiology III 3 2 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 14 7 Sixth Term 9300 Co-Op Employment Health Technology 1 40 Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 Isighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 | Fifth Term | | | 1 | 40 | 2 |
| 102x Oral Communication Elective 3 0 4016 Anatomy and Physiology III 3 2 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 14 7 Sixth Term 9300 Co-Op Employment Health Technology 1 40 Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pat | 102x Oral Communication Elective | | os op imployment realiti reciniology | 1970 | 70 | 000 |
| 4016 Anatomy and Physiology III 3 2 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 14 7 Sixth Term 9300 Co-Op Employment Health Technology 1 40 Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4020 Fundamentals ecord Seminar 3 0 | 4016 Anatomy and Physiology III 3 2 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 14 7 Sixth Term 9300 Co-Op Employment Health Technology 1 40 Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 <t< td=""><td></td><td></td><td>d easy</td><td>nisos e</td><td>001</td></t<> | | | d easy | nisos e | 001 |
| 4016 Anatomy and Physiology III 3 2 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 14 7 Sixth Term 9300 Co-Op Employment Health Technology 1 40 Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 | 4016 Anatomy and Physiology III 3 2 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 14 7 Sixth Term 9300 Co-Op Employment Health Technology 1 40 Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | 102x | Oral Communication Elective | 3 | 0 | 3 |
| 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 14 7 Sixth Term 9300 Co-Op Employment Health Technology 1 40 Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4020 Fundamentals colspan="2">Fundamentals of Pathophysiology 5 0 40409 Medical Record Seminar 3 0 | 4031 Health Care Management 3 0 4416 Coding Diagnoses, Operations & Proc 5 5 5 5 14 7 Sixth Term 9300 Co-Op Employment Health Technology 1 40 Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | 4016 | Anatomy and Physiology III | 3 | 2 | 4 |
| Sixth Term 5 5 9300 Co-Op Employment Health Technology 1 40 Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 409 Medical Record Seminar 3 0 | 4416 Coding Diagnoses, Operations & Proc 5 5 5 Ith Term 9300 Co-Op Employment Health Technology 1 40 Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | 4031 | Health Care Management | | | 3 |
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| Sixth Term 9300 Co-Op Employment Health Technology 1 40 Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 | Sixth Term 9300 Co-Op Employment Health Technology 1 40 Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | 36 | The state of the s | | | |
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| Seventh Term 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 409 Medical Record Seminar 3 0 | Seventh Term | Sixth | Term | | mel b | HEED S |
| 1010 Technical Writing I 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 409 Medical Record Seminar 3 0 | 1010 Technical Writing 3 0 15xx Social Science Elective 3 0 1850 Computerized Business Applications 2 3 3 4417 Medical Statistics & Record Abstract 3 2 2 4419 Advanced Coding 2 2 2 4428 Medical Record Directed Practice 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice 0 16 15 16 | 9300 | Co-Op Employment Health Technology | 1 | 40 | 2 |
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| 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 | 4417 Medical Statistics & Record Abstract 3 2 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | 15XX | Social Science Elective | 3 | | 3 |
| 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 | 4419 Advanced Coding 2 2 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | 1850 | Computerized Business Applications | 2 | | 3 |
| 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 | 4428 Medical Record Directed Practice I 0 16 13 23 Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | 4417 | Medical Statistics & Record Abstract | | 2 | 4 |
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| Fighth Term 9300 Co-Op Employment Health Technology | Eighth Term 9300 Co-Op Employment Health Technology 1 40 Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | 4428 | Medical Record Directed Practice I | 0 | 16 | 3 |
| 9300 Co-Op Employment Health Technology 1 40 Ninth Term 3 0 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 | 9300 Co-Op Employment Health Technology 1 40 Ninth Term 3 0 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | | | 13 | | 19 |
| 9300 Co-Op Employment Health Technology 1 40 Ninth Term 3 0 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 | 9300 Co-Op Employment Health Technology 1 40 Ninth Term 3 0 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | Eight | Come E | BOLES | JOHN H | 361 |
| Ninth Term 15xx Social Science Elective | Ninth Term 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | 9300 | Co-On Employment Health Technology | 1 90 | 10 | 2 |
| 15xxSocial Science Elective304020Fundamentals of Pathophysiology504409Medical Record Seminar30 | 15xx Social Science Elective 3 0 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | 3300 | co-op Employment Health Technology | ntials | 40 | 102 |
| 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 | 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | Ninth | Term | A IBDI | DOWN EI | 4ZU |
| 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 | 4020 Fundamentals of Pathophysiology 5 0 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | 15xx | Social Science Elective | 3 | 0 | 3 |
| 4409 Medical Record Seminar 3 0 | 4409 Medical Record Seminar 3 0 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | | | | 1000 | 5 |
| | 4418 Tumor Registry, Util Rev & Qual Assu 4 0 4429 Medical Record Directed Practice II 0 16 15 16 | 4409 | Medical Record Seminar | | | 3 |
| 4418 Tumor Registry Lltil Rev & Qual Assu 4 | 4429 Medical Record Directed Practice II 0 16 15 16 | 4418 | Tumor Registry Litil Rey & Qual Assu | | | 4 |
| 4429 Medical Record Directed Practice II | 15 16 | 4420 | Medical Record Directed Practice II | | 200 | |
| | adical Assistant | 7723 | Medical Record Directed Fractice If | | | 3 |
| 15 16 | Touth Tour | | | 15 | 16 | 18 |
| Tenth Term | ientn ierm | Tenth | Term | - | S. C. C. | The same of |
| | 9300 Co-Op Employment Health Technology 1 40 | | | 1 | 40 | 2 |
| | | | | | | |
| | | | | | | 10 |

English Composition Electives: 1002, 1007, 1008, 1010

Oral Communications Electives: 1020, 1024

Social Science Electives: (At least 2 groups must be represented.)

Group 1 - Psychology: 1505, 1506, 1508, 1509, 1510

Group 2 - Economics: 1512, 1513

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

Group 4 - Government: 1531, 1535, 1539

The CTC/Bethesda Hospital, Inc. Nursing Program (NUR)

(Proposed to begin September, 1989)

The purpose of the program is to prepare graduate nurses who are eligible to take the national standardized nursing examination (NCLEX-RN) and upon passing, work as registered nurses.

The graduate is a member of the health team qualified to practice in hospitals, extended care facilities and other similar institutions.

The objectives of the program are to prepare the graduate to:

 Deliver individualized care to nursing clients with common health problems as the direct care provider.

Function within a structured health care setting as a health team member under the guidance of a registered nurse manager or licensed physician.

3. Incorporate health promotion activities into the nursing plan of care to maximize the client's health potential.

- Communicate effectively with nursing clients, their families and health team members.
- Be accountable for nursing care delivered as a member of the nursing profession.
- Utilize the nursing process as a decision making tool when managing care for nursing clients.

The program has been approved by the Ohio State Board of Nursing Education and Nurse Registration. Accreditation by the National League of Nursing, which is not available until the first class has graduated, will be pursued.

Nursing Program Level I

| | Hours Per Week | | Credit |
|--|----------------|--------|--------|
| and registry examination administered by the | Class | Lab | Hours |
| ■ First Term | | | |
| 1001 English Composition I | 3 | 0 | m3 |
| 1505 Introduction to Psychology I | 3 | 0 | V 3 |
| 4014 Anatomy and Physiology I | | 2 | 4 |
| 4901 Foundations of Nursing Practice | | 5 | 7 |
| | 15 | 7 | 17 |
| rerapy | II Y 10! | piral | Kes |
| ■ Second Term | Own C | lants! | Test |
| 1002 English Composition II | 3 | 0 | 3 |
| 2232 Fundamentals of Organic Chemistry | 3 | 2 | 4 |
| 4015 Anatomy & Physiology II | | 2 | 4 |
| 4902 Intro. to Common Health Problems | 4 | 5 | 5 |
| | 13 | 9 | 16 |
| | th Elective | sNA xx | 111 |
| ■ Third Term | nodoubo | int H | 404 |
| 2233 Fundamentals of Biochemistry | 3 | 2 | 4 |
| 4016 Anatomy and Physiology III | 3 | 2 | 4 |
| 4903 Common Health Problems I | 3 | 10 | 5 |
| | 9 | 14 | 13 |
| | | | .5 |
| ■ Fourth Term | | - | - |
| 1508 Psychology: Child Development | 3 | 0 | 3 |
| 4009 General Microbiology | | 3 | 4 |
| 4904 Common Health Problems II | 3 | 10 | 5 |
| Heldaby Science 1 | 9 | 13 | 12 |
| | our lucoity | 13 | 12 |

Level II

| | Hours Pe | Week | Credi |
|--|--------------|--------|--------|
| | Class | Lab | Hours |
| Fifth Term 0 19010s | Chaical Pra | TR II | 47 |
| 4905 Adolescent and Adult Health Nursing | 9 | 12 | 11 |
| *9371 Cooperative Education Experience I | 1_ | 17 | 1 |
| | 10 | 29 | 12 |
| Sixth Term | 9 lo alsime | 18 Ess | 40 |
| 4906 Parent Child Health Nursing | 9 | 12 | 11 |
| 4001 Intro. to the Health Care System | 2 | 0 | 2 |
| | 11 | 12 | 13 |
| Seventh Term | | | |
| 9372 Cooperative Education Experience II | 1 | 24 | 2 |
| Eighth Term | spiratory TI | of Re | 47 |
| 1527 Technology and Ethical Decisions | 3 | 0 | 3 |
| 4907 Mental Health Nursing | 5 | 12 | 7 |
| 1024 Group Dynamics & Problem Solving | | 0 | 3 |
| | 11 | 12 | 13 |
| | - 10 | th Ter | ele si |
| Ninth Term | | | |
| 1010 Technical Writing I | T.V.013 G | 0 | 3 |
| 4909 Management of Client Care | 6 | 18 | 9 |
| | 9 | 18 | 12 |
| | | | 110 |

^{*}This co-op is completed over a two term period with students completing 9 hours per week of co-op experience during two consecutive terms.

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 their 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

The Occupational Therapy Assistant program is approved by the Accreditation Committee of the American Occupational Therapy Association. Graduates of the program will be able to sit for the national certification examination for the occupational therapy assistant administered by the American Occupational Therapy Certification Board. After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). Many states require licensure in order to practice; however, state licenses are usually based on the results of the AOTCB Certification Exam.

Occupational Therapy Assistant Curriculum

| | Hours Per | Hours Per Week | | Hours Per Week C | |
|--|-----------|----------------|-------|------------------|--|
| ge has developed a training program it | Class | Lab | Hours | | |
| ■ First Term | | | | | |
| 1001 English Composition I | 3 | 0 | 3 | | |
| 1505 Introduction to Psychology I | 3 | 0 | 3 | | |
| 4000 Introduction to Medical Terminology | 3 | 1 | 3 | | |
| 4001 Introduction to Health Care Systems | 2 | 0 | 2 | | |
| 4600 Introduction to OTA | | 3 | 3 | | |
| | 13 | 4 | 14 | | |
| Second Term | | | | | |
| 1002 English Composition II | 3 | 0 | 3 | | |
| 1506 Introduction to Psychology II | 3 | 0 | 3 | | |
| 4014 Anatomy and Physiology I | 3 | 2 | 0 4 | | |
| 4610 Theory of OT | 3 | 0 | 3 | | |
| 4620 Techniques of OT | | 4 | 2 | | |
| | 12 | 6 | 15 | | |
| ■ Third Term | | | | | |
| 1024 Group Dynamics & Problem Solving | 3 | 0 | 3 | | |
| 4007 Emergency Medical Procedures | 1 mm | 2 | 2 | | |
| 4015 Anatomy and Physiology II | | 2 | E 43 | | |
| 4611 OT Concepts - Psychosocial | | 0 | 3 | | |
| 4621 Media for OT - Psychosocial | 0 | 4 | 2 | | |
| 4651 OTA Field Work I (Level I) | 0 | 8 | E 2 | | |
| | 10 | 16 | 16 | | |

| Fourt | h Term | STATISTICS. | -da | -F-127- |
|---------|---|-------------|--------|---------|
| 1508 | Psychology: Child Development | . 3 | 0 | 003 |
| 4016 | Anatomy and Physiology III | | 2 | 4 |
| 4612 | OT Concepts - Infants & Children | . 3 | 0 | 3 |
| | Media for OT - Infants & Children | . 0 | 4 | 2 2 |
| 4652 | OTA Field Work II (Level I) | 0 | 8 | 2 |
| | | 9 | 14 | 1 |
| Fifth 1 | 정류 공료공료(CHCC) (16) (CHCCC) (CHCCCC) (CHCCCCC) (CHCCCCCCCCCC | and the | Sirky) | asia. |
| | Psychology: Adult Development | 3 | 0 | 3 |
| 4025 | Kinesiology | 2 | 2 | 3 |
| 4613 | OT Concepts - Physical Disabilities | 3 | 0 | 3 |
| 4623 | Media for OT - Physical Disabilities | | 4 | 2 |
| 4653 | OTA Field Work III (Level I) | SITIEU | 8 | _ 2 |
| | | 9 | 14 | 1. |
| Sixth | | olay-le | and | sho |
| | Introduction to Sociology | | 0 | 3 |
| 4020 | Fundamentals of Pathophysiology | 5 5 | 0 | 5 |
| 4614 | OT Concepts - Gerontology | 30 00 | 0 | 1993 |
| 4024 | Media for OT - Gerontology | | 4 | 2 |
| | | 1011 90 | 4 | 1. |
| | th Term strate will demonstrate many | nedms | it me | f the |
| 1010 | Technical Writing I | 3 | 0 | 1916 |
| 1502 | Human Relations | | 0 | boo |
| 4631 | OT Fundamentals Practice | 0 | 6 | 3 |
| 4031 | Of Fundamentals Fractice | - | 100111 | 1 |
| s gnit | rations; data collection; self understand | 9 | 6 | 1 |
| Eighth | | rapito | bos : | no su |
| 4660 | OTA Field Work IV (Level II) | 2 | 32 | 6 |
| Ninth | Term OTA Field Work V | alen bii | 22 | |
| 4001 | OIA FIEID WORK V | 2 | 32 | _6 |
| | | | | 10 |

Phlebotomy Certificate Program (PCML) (Blood Drawing)

Laboratory scientists, technologists and technicians require blood specimens that have been obtained promptly and efficiently by qualified phlebotomists. The phlebotomist is an integral member of the laboratory team. This important individual must be trained in all aspects of specimen collection and processing. The phlebotomist must also be able to maintain high standards of professionalism with patients. To ensure that quality training is available to persons interested in this field of work, Cincinnati Technical College has developed a training program in phlebotomy.

The program is currently approved by the National Phlebotomy Association, Inc.

Phlebotomy Certificate Curriculum

| | Hours Per Week C | | Credit |
|--|---------------------|--------|--------|
| to the second se | Class | Lab | Hours |
| ■ First Term 4000 Introduction to Medical Terminology | 3 | ini do | 3 |
| Second Term | asuninei: | ool Oc | 46 |
| 1502 Human Relations | 3 | 0 | 3 |
| 4380 Introduction to Phlebotomy | 3 | 0 | 3 |
| | 6 | 0 | 6 |
| ■ Third Term | oug Dyn lengency | 07 Est | 40 |
| 4390 Basic Phlebotomy | 5 | 0 | 04 5 |
| ■ Fourth Term | edia for C | 21 Me | 46 |
| 4391 Phlebotomy Practicum I | V. blot A | 10 | 2 |
| | | | 16 |

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 intermittent 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 since students spend their time in course work and unpaid clinical experiences.

The program is accredited by the American Medical Association's Committee on 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 Pe Class | r Week Lab | Cred |
|---------|-------------------------------------|-------------------|---------------|--------------|
| First 1 | [erm | Ciuss | Luo | 1100 |
| | Math Elective | 4 | 0 | 4 |
| | Introduction to Health Care Systems | | 0 | 2 |
| | Chemistry for Health Technology | | 2 | 4 |
| | Emergency Medical Procedures | | 2 | 2 |
| 4014 | Anatomy and Physiology I | 3 | 2 | 04 |
| 4700 | Introduction to Respiratory Therapy | ari nomm | 0 | 1490 |
| 4700 | introduction to respiratory merapy | 14 | 6 | 17 |
| Seco | nd Term | 817 | 91 1971 | POP) W |
| 1001 | English Composition I | 3 | 0 | 3 |
| 4015 | Anatomy and Physiology II | 3 | | 4 |
| 4701 | Respiratory Therapy Science I | 3 | 2 2 | 4 |
| 4720 | Cardiopulmonary A & P | 3 | 2 | 4 |
| 1720 | Cardiopannonary / Car | | | |
| | | 12 | 6 | 15 |
| Third | | | W. H. CO. | W 1.07 mil |
| | General Microbiology | | 3 | 4 |
| 4016 | Anatomy and Physiology III | 3 | 2 | 4 |
| | Respiratory Therapy Science II | | 3 | 3 |
| 4711 | RT Clinical Practice I | 0 | 8 | 1 |
| | | 8 | 16 | 12 |
| | h Term | | | |
| 100x | English Composition Elective | 3 | 0 | 3 |
| 4018 | Essentials of Pharmacology | 3 | 0 | 3 |
| | Respiratory Therapy Science III | | | |
| 4712 | RT Clinical Practice II | 0 | 8 | 01-1 |
| 4718 | Pulmonary Diseases I | 2 | 0 | 2 |
| | | 11 | 10 | 13 |
| Fifth 1 | | operative | 72 Co | # <u>5</u> # |
| 102x | Oral Communication Elective | 3 | 0 | 3 |
| 4704 | Respiratory Therapy Science IV | 3 | 2 | 4 |
| 4713 | RT Clinical Practice III | 0 | 24 | 4 |
| 4719 | Pulmonary Diseases II | 2 | 0 | 2 |
| | | 8 8 | 26 | 13 |
| Sixth | Term | | | |
| 15xx | Social Science Elective | 3 | 0 | 3 |
| 4705 | Respiratory Therapy Science V | 3 | 2 | 4 |
| 4714 | RT Clinical Practicum IV | 0 | 32 | 5 |
| | | 6 | 34 | 12 |
| Seven | th Term | | | |
| 101x | Technical Writing Elective | 3 | 0 | 3 |
| | Health Physics I | 12 | 2 | - 1 |

| 4020 | Fundamentals of Pathophysiology | 5 | 0 | 5 |
|----------|---------------------------------|-------|-------|------|
| | Respiratory Therapy Science VI | 3 | 2 | 4 |
| | | 14 | 4 | 16 |
| ■ Eighti | Term | 97 | IDINO | lus, |
| 15xx | Social Science Elective | 3 | 0 | 3 |
| 15xx | Social Science Elective | 3 | 0 | 3 |
| 4707 | Respiratory Therapy Science VII | 3 | 0 | 3 |
| 4715 | RT Clinical Practice V | 0 | 16 | 3 |
| | | 9 | 16 | 12 |
| Ninth | | ewill | Oreso | SXX/ |
| 4716 | RT Clinical Practice VI | 0 | 16 | 3 |
| 4723 | Respiratory Therapy Seminar | 2 | 2 | 3 |
| | | 2 | 18 | 6 |
| | | | | 116 |

English Composition Electives: 1002, 1007, 1008, 1010

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

Math Electives: 1131, 1151, 1171, 1191

Oral Communications Electives: 1020, 1024

Social Science Electives: (At least 2 groups must be represented.)

Group 1 - Psychology: 1505, 1506, 1508, 1509, 1510

Group 2 - Economics: 1512, 1513

Group 3 - Sociology: 1521, 1523, 1524, 1525, 1527

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 hospital operating room departments, obstetrical departments, medical supply/processing departments, outpatient surgical centers and physician office

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 are integrated through the use of simulated laboratory experiences and hospital operating room experiences. During this year students also take supportive coursework in basic sciences, communication skills and social sciences.

The emphasis of the second year is directed toward 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 on 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 responsible men and women identified as en mulicipal and a manufacture of the control of the con

| | | Hours Per | SEEC LIN | Cred |
|---------|--|--|----------|---------|
| and. | os to develop better management for | Class | Lab | Hour |
| First T | | | | |
| | English Composition Elective | 3 | 0 | 3 |
| | Introduction to Medical Terminology | | lenhio | 3 |
| 4001 | Introduction to Health Care Systems | 2 | 0 | 2 |
| 4009 | General Microbiology | 3 | 3 | 4 |
| | Introduction to Surgery I | 4 | 0 | 4 |
| | | 15 | 4 | 16 |
| Secor | Term MOD REGES ALERS COM mraT be | courses in | level | ale |
| 100x | English Composition Elective | 3 | 0 | 3 |
| | Anatomy and Physiology I | 3 | 2 | 4 |
| | Advanced Medical Terminology | | 0 | 3 |
| | Introduction to Surgery II | | 0 | 5 |
| 25/15/1 | responsible and better paying mid-r | 14 | 2 | 15 |
| | | .enc | POSITIE | inen |
| Third | Term Effective Speaking | 3 | 0 | 3 |
| | | | | |
| | Social Science Elective | | 0 | 3 |
| | Anatomy and Physiology II | | 2 | 4 |
| | General Surgery | | 0 | 4 |
| 4541 | ST Surgery Lab | | | _1 |
| | | 13 | 4 | 15 |
| Fourt | h Term moitsoul | tive Ed | pera | 000 |
| 15xx | Social Science Elective | 3 | 0 | 3 |
| 4016 | Anatomy and Physiology III | 3 | 2 | 4 |
| | Essentials of Pharmacology | 3 | 0 | 3 |
| | General Surgery II | | 0 | 4 |
| 4542 | ST Clinical Experience I | 0 | 5 | 2 |
| gas o | perative education allows students t | 13 | 7 | 16 |
| that w | siness world, and to gain experience | ud edi ni | najors | rejer |
| Fifth 7 | | | odi eo | 1600 |
| | Technical Writing I | | 0 | 3 |
| | Social Science Elective | | 0 | 3 |
| | Emergency Medical Procedures | | 2 | 2 |
| | Surgical Specialties I | | 0 | 4 |
| 4543 | ST Clinical Experience II | DV CONTRACTOR | _5_ | 2 |
| | e the Professional Practices class off | cottoplet | 7 | 14 |
| Sixth | | 9201 or S | DEMIC | o ritin |
| | Stress Management | 3 | 0 | 3 |
| | Health Care Management | 3 | 0 | 3 |
| | Surgical Specialties II | | 0 | 5 |
| 4544 | ST Clinical Experience III | 0_ | 5 | 2 |
| | | 11 | 5 | 13 |
| | th Term | WIER OFFICE | dents | Stu |
| 4551 | ST Clinical Practice I | lises substitution | 40 | 7 |
| Eightl | nerative Education Program" mraf n | he "Coop | 00 18 | Refe |
| 4552 | ST Clinical Practice II | is i ou too | 40 | 7 |
| Ninth | | The state of the s | 40 | |
| 4553 | ST Clinical Practice III | Taining . | 40 | 7 |
| | | | | 110 |

English Composition Electives: 1001, 1002, 1007, 1008

Social Science Electives: (At least 2 groups must be represented.)

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

Group 2 - Economics: 1512, 1513

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

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 apply their majors in the business world, and to gain experience that will enhance their first full-time employment after graduation. Therefore, in the Business Technologies Division, all students are required to earn 13 credit hours in cooperative education (Horticulture requires 11 credit hours).

To prepare for successful job interviews and continued success in their cooperative education jobs, all students are required to successfully complete the Professional Practices class offered by the Business Technologies Division, either before or concurrent with course 9201 or 9501.

* Students with prior business experience may be permitted to fulfill the cooperative education requirement by applying, through their program coordinators, to submit a portfolio which documents past work experience. The portfolio will be reviewed to determine its validity.

* Students with other work experience may apply, through their program coordinators, to complete appropriate business courses as a substitute for cooperative education employment.

Refer to the "Cooperative Education Program" section of the

Refer to the "Cooperative Education Program" section of the catalog for additional requirements.

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 in 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 and technical centers they receive practical experience under the direction of qualified technicians or experienced managers.

Automotive Service Management Technology Curriculum

| | | Hours P | | Cred |
|-------------------|---|-----------------------|---------|--------|
| - Fi4 | 7 | Class | Lab | Hour |
| First | English Composition I | 2 | 0 | 2 |
| | Business Mathematics I | | 0 | 3 |
| 2501 | Automotive Technology I | 3 | 0 | 3 |
| 2501 | Adachine & Hand Tarl Lab | 5 | | 8 |
| 2500 | Machine & Hand Tool Lab | 2 | 3 | 3 |
| | | 210 13 | 13 | 17 |
| Seco | nd Term | ovitool2 c | Sciono | leisoi |
| | Professional Practices | | 0 | 0 |
| | Co-Op Employment Business Tech | Director | 40 | 3 |
| | | 19 | - | - |
| | nt 1531, 1539 | 2.0 | 40 | 3 |
| • Third | | | | |
| 1002 | English Composition II | 3 | 0 | 3 |
| 1170 | Intro to Technical Mathematics | 4 | 0 | 4 |
| 2221 | Technical Physics I | 2 | 3 | 3 |
| 2502 | Automotive Technology II | 5 | 10 | 8 |
| | | 14 | 13 | 18 |
| LFour | th Term | | | |
| 9202 | Co-Op Employment Business Tech | l technic | 40 | 3 |
| 198 M | surgical patient and other related paties | e of the | fre car | uppe |
| | Term Microeconomics | ymen o | orquia | .000 |
| | | | 0 | |
| | Technical Physics II | | | 3 |
| 2503 | Automotive Technology III | 2 | 8 | 5 |
| 2510 | Automotive Management I | ., 2 | 3 | 3 |
| 2911 | Principles of Accounting I | 3 | 2 | 3 |
| 2925 | Business Principles | 3_ | 0 | 3 |
| | | 15 | 16 | 20 |
| Sixth | Term | ad avia | DGO 8 | dunin |
| | Co-Op Employment Business Tech | . 1 | 40 | 3 |
| Savar | th Term of general many that | es bas | See abs | IOCUS |
| 1010 | Technical Writing I | ies App | 0 | 3 |
| 1505 | Intro to Psychology I | 3 | 0 | 3 |
| 1535 | Intro to Labor Management Relations | 3 | | |
| 2504 | Automotive Technology IV | 3 | 0 | 3 |
| 2509 | Tachniques of Wolding | 2 | 8 | 5 |
| 2511 | Techniques of Welding | 2 | | 3 |
| 2311 | Automotive Management II | | 3 | 3 |
| 5, COL | description coursework in basic science | 15 | 0146 | 20 |
| Eightl | Term or betoenly at year boose and | hasis of | | ďΤ |
| 9204 | Co-Op Employment Business Tech | splial e | 40 | 2 |
| Ninth | | msecun | Sell- | D TO |
| | Effective Speaking | 3 | 0 | 3 |
| 1823 | Business Law I | 3 | 0 | 3 |
| | Computerized Business Applications | 2 | 3 | 3 |
| | Automotive Technology V | 1,005 | 10 | 8 |
| | Survey of Marketing | 3 | 0 | 130 |
| | ccredited by the American Medical | 16 | 13 | 20 |
| Total | Allied Health Education and Accredit | nittee or | Comm | inoit |
| Tenth 9205 | Co-Op Employment Business Tech | ntiw no | 40 | 2 |
| 2203 | Co op Employment business lecti | | 40 | |
| | y completion of the curriculum, situate | | | 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

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

The Management Information Systems curriculum prepares the student to satisfy the demand for increased employment in the data processing environment. Job opportunities for graduates include computer operations input - output control and microcomputer specialist. The students career path can lead to operations management.

Management Information Systems Technology Curriculum

| First Term | | | Hours Per Class | Lab | Credi |
|--|---------|--|--------------------|---------|--------|
| 1001 English Composition | Einet 7 | 77 | Class | Lab | nour |
| 112x Math Elective | | | 2 | 0 | 3 |
| 1701 Introduction to Data Processing 3 0 1711 Introduction to Computer Operations 2 3 3 2 1712 Data Entry Systems 2 3 2 17 8 8 8 17 8 8 17 8 17 8 17 8 18 1 | | | | 0.00 | 4 |
| 1711 Introduction to Computer Operations 2 3 3 2 3 3 | | | | | 100 |
| 1712 Data Entry Systems 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 3 | | | | - | 3 |
| Principles of Accounting 3 2 17 8 8 17 8 8 17 8 8 17 8 18 1 | | | | | 3 |
| 17 8 | 1712 | Data Entry Systems | 2 | 200 | 3 |
| Second Term 9200 Professional Practices 1 0 0 9201 Co-Op Employment Business Tech 1 40 2 40 | 2911 | Principles of Accounting I | 3 | 2 | 3 |
| 9200 Professional Practices 1 0 9201 Co-Op Employment Business Tech 1 40 2 40 Third Term 1002 English Composition II 3 0 112x Math Elective 4 0 1731 Advanced Computer Operations 2 3 1861 Electronic Spreadsheet 2 1 2912 Principles of Accounting II 3 2 2925 Business Principles 3 0 Fourth Term 9202 Co-Op Employment Business Tech 1 40 Fifth Term 15xx Social Science Elective 3 0 1702 Introduction to Basic Programming 2 3 1754 Data Communications 3 2 2913 Principles of Accounting II 3 2 2926 Principles of Management 3 0 Sixth Term 9203 Co-Op Employment Business Tech 1 40 Seventh Term 1010 Technical Writing I 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I 3 0 Sighth Term 9204 Co-Op Employment Business Tech 1 40 Ninth Term 1020 Effective Speaking 3 0 1502 Human Relations 3 0 1741 Operating Systems I 2 3 1741 Operating Systems I 2 3 1742 Operating Systems I 2 3 1743 Operating Systems I 2 3 1744 Operating Systems I 2 3 1745 Operating Systems I 2 3 1746 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | | | 17 | 8 | 19 |
| 9200 Professional Practices 1 0 9201 Co-Op Employment Business Tech 1 40 | Sacor | ad Town | working . | ASM \$ | 871 |
| Page 1 Page 2 Page 3 P | | | ness Law | 0 | 0 |
| Third Term | | | A to polinin | | 3 |
| Third Term 1002 English Composition II | 9201 | Co-Op Employment business lectr | | | |
| 1002 English Composition | | | 2 | 40 | 3 |
| 112x Math Elective 4 0 1731 Advanced Computer Operations 2 3 1861 Electronic Spreadsheet 2 1 2912 Principles of Accounting II 3 2 2925 Business Principles 3 0 Fourth Term 9202 Co-Op Employment Business Tech 1 40 Fifth Term 15xx Social Science Elective 3 0 1702 Introduction to Basic Programming 2 3 1721 Programming Logic & Methods 2 3 1754 Data Communications 3 2 2913 Principles of Accounting III 3 2 2926 Principles of Management 3 0 Interpretable of Management 3 0 Sixth Term 9203 Co-Op Employment Business Tech 1 40 Seventh Term 1010 Technical Writing I 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I <td>Third</td> <td>Term</td> <td></td> <td>anse a</td> <td>IRSI P</td> | Third | Term | | anse a | IRSI P |
| 112x Math Elective 4 0 1731 Advanced Computer Operations 2 3 1861 Electronic Spreadsheet 2 1 2912 Principles of Accounting II 3 2 2925 Business Principles 3 0 Fourth Term 9202 Co-Op Employment Business Tech 1 40 Fifth Term 15xx Social Science Elective 3 0 1702 Introduction to Basic Programming 2 3 1721 Programming Logic & Methods 2 3 1754 Data Communications 3 2 2913 Principles of Accounting III 3 2 2926 Principles of Management 3 0 Interpretable of Management 3 0 Sixth Term 9203 Co-Op Employment Business Tech 1 40 Seventh Term 1010 Technical Writing I 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I <td>1002</td> <td>English Composition II</td> <td>3</td> <td>0</td> <td>3</td> | 1002 | English Composition II | 3 | 0 | 3 |
| 1731 Advanced Computer Operations 2 3 1861 Electronic Spreadsheet 2 1 2912 Principles of Accounting II 3 2 2925 Business Principles 3 0 Fourth Term 17 6 Fourth Term 1 40 Fifth Term 1 40 1702 Introduction to Basic Programming 2 3 1721 Programming Logic & Methods 2 3 1754 Data Communications 3 2 2913 Principles of Accounting III 3 2 2926 Principles of Management 3 0 Sixth Term 3 0 9203 Co-Op Employment Business Tech 1 40 Seventh Term 1010 Technical Writing I 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I 3 0 14 10 3 0 1741 Operating Systems II 2 3 1741 Operating | | | | | 4 |
| 1861 Electronic Spreadsheet 2 1 2912 Principles of Accounting II 3 2 2925 Business Principles 3 0 Fourth Term 9202 Co-Op Employment Business Tech 1 40 Fifth Term 15xx Social Science Elective 3 0 1702 Introduction to Basic Programming 2 3 1721 Programming Logic & Methods 2 3 1754 Data Communications 3 2 2913 Principles of Accounting III 3 2 2926 Principles of Management 3 0 Sixth Term 9203 Co-Op Employment Business Tech 1 40 Seventh Term 1010 Technical Writing I 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I 3 0 1741 Operating Systems II 2 3 1020 Effective Speaking 3 0 1741 Operating Systems II 2 <td></td> <td></td> <td></td> <td>V 100</td> <td>3</td> | | | | V 100 | 3 |
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| Pourth Term 9202 Co-Op Employment Business Tech 1 40 | | | | | |
| To Fourth Term | | | | | 3 |
| Fourth Term 9202 Co-Op Employment Business Tech | 2925 | Business Principles | 3_ | | 3 |
| Fifth Term 15xx Social Science Elective 3 0 1702 Introduction to Basic Programming 2 3 1721 Programming Logic & Methods 2 3 1754 Data Communications 3 2 2913 Principles of Accounting III 3 2 2926 Principles of Management 3 0 Sixth Term 9203 Co-Op Employment Business Tech 1 40 Seventh Term 1010 Technical Writing I 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I 3 0 3 1823 Business Law I 3 0 3 1825 Eighth Term 3 0 3 0 1820 Effective Speaking 3 0 3 0 1820 Human Relations 3 0 0 | | | 17 | 6 | 19 |
| Fifth Term 15xx Social Science Elective 3 0 1702 Introduction to Basic Programming 2 3 1721 Programming Logic & Methods 2 3 1754 Data Communications 3 2 2913 Principles of Accounting III 3 2 2926 Principles of Management 3 0 Sixth Term 3 0 9203 Co-Op Employment Business Tech 1 40 Seventh Term 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I 3 0 16 Introduction to RPG 2 3 0 1741 Operating Systems I 2 3 1741 Operating Systems II 2 3 1741 Operating Systems II 2 3 1741 Data Base Management Systems 2 3 | Fourt | h Term | 48.00 PH 1.00.00 | | 21.403 |
| 15xx Social Science Elective 3 0 1702 Introduction to Basic Programming 2 3 1721 Programming Logic & Methods 2 3 1754 Data Communications 3 2 2913 Principles of Accounting III 3 2 2926 Principles of Management 3 0 16 10 10 Sixth Term 9203 Co-Op Employment Business Tech 1 40 Seventh Term 1010 Technical Writing I 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I 3 0 3 1823 Business Law I 3 0 3 1826 Co-Op Employment Business Tech 1 40 Sighth Term 9204 Co-Op Employment Business Tech 1 40 Ninth Term | 9202 | Co-Op Employment Business Tech | 1 | 40 | 3 |
| 15xx Social Science Elective 3 0 1702 Introduction to Basic Programming 2 3 1721 Programming Logic & Methods 2 3 1754 Data Communications 3 2 2913 Principles of Accounting III 3 2 2926 Principles of Management 3 0 16 10 10 Sixth Term 9203 Co-Op Employment Business Tech 1 40 Seventh Term 1010 Technical Writing I 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I 3 0 3 1823 Business Law I 3 0 3 1826 Co-Op Employment Business Tech 1 40 Ninth Term 1020 Effective Speaking 3 0 1502 Human Relations 3 <td< td=""><td>Fifth 7</td><td>erm () Vacionalisa insuisa</td><td>SENSON A</td><td>1105</td><td>eus</td></td<> | Fifth 7 | erm () Vacionalisa insuisa | SENSON A | 1105 | eus |
| 1702 Introduction to Basic Programming 2 3 1721 Programming Logic & Methods 2 3 1754 Data Communications 3 2 2913 Principles of Accounting III 3 2 2926 Principles of Management 3 0 16 10 10 Sixth Term 9203 Co-Op Employment Business Tech 1 40 Seventh Term 1010 Technical Writing I 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I 3 0 14 10 Eighth Term 9204 Co-Op Employment Business Tech 1 40 Ninth Term 1020 Effective Speaking 3 0 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | | | 3 | 0 | 3 |
| 1721 Programming Logic & Methods 2 3 1754 Data Communications 3 2 2913 Principles of Accounting III 3 2 2926 Principles of Management 3 0 16 10 10 Sixth Term 9203 Co-Op Employment Business Tech 1 40 Seventh Term 1010 Technical Writing I 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I 3 0 3 1823 Business Law I 3 0 3 Fighth Term 9204 Co-Op Employment Business Tech 1 40 Ninth Term 1020 Effective Speaking 3 0 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | | | | 3 | 3 |
| 1754 Data Communications 3 2 2913 Principles of Accounting III 3 2 2926 Principles of Management 3 0 I6 10 16 10 Sixth Term 9203 Co-Op Employment Business Tech 1 40 Seventh Term 1010 Technical Writing I 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I 3 0 3 Eighth Term 9204 Co-Op Employment Business Tech 1 40 Ninth Term 1020 Effective Speaking 3 0 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | 1702 | Programming Logic & Mothods | | - | 1123 |
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| Sixth Term 9203 Co-Op Employment Business Tech 1 40 40 | | | | - | 3 |
| Sixth Term 9203 Co-Op Employment Business Tech 1 40 Seventh Term 1010 Technical Writing I 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I 3 0 3 1823 Business Law I 3 0 3 14 10 10 10 Eighth Term 9204 Co-Op Employment Business Tech 1 40 Ninth Term 1020 Effective Speaking 3 0 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | 2926 | Principles of Management | 3 | 0 | 3 |
| 9203 Co-Op Employment Business Tech 1 40 Seventh Term 1010 Technical Writing I 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 7 1823 Business Law I 3 0 3 7 1823 Business Law I 3 0 3 14 10 Eighth Term 9204 Co-Op Employment Business Tech 1 40 Ninth Term 1020 Effective Speaking 3 0 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | | | 16 | 10 | 18 |
| 9203 Co-Op Employment Business Tech 1 40 Seventh Term 1010 Technical Writing I 3 0 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 7 1823 Business Law I 3 0 3 7 1823 Business Law I 3 0 3 14 10 Eighth Term 9204 Co-Op Employment Business Tech 1 40 Ninth Term 1020 Effective Speaking 3 0 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | C'-4L | odle directions and gain valuable insig | ind of our | sol zin | ebut: |
| Seventh Term | | | nemaga: | 40 | 3 |
| 1010 Technical Writing 3 0 1512 Microeconomics 3 0 1740 Operating Systems 2 3 1742 COBOL Programming 3 7 1823 Business Law 3 0 3 14 10 10 15 16 16 16 16 17 16 17 16 17 17 | 3203 | Co op Employment business teen | | | |
| 1512 Microeconomics 3 0 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I 3 0 3 14 10 10 10 Eighth Term 9204 Co-Op Employment Business Tech 1 40 Ninth Term 1 40 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | | | ILLE IVI | 0 | 2 |
| 1740 Operating Systems I 2 3 1742 COBOL Programming I 3 7 1823 Business Law I 3 0 3 14 10 10 Eighth Term 9204 Co-Op Employment Business Tech 1 40 Ninth Term 1 40 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | | | | | 3 |
| 1742 COBOL Programming 3 7 1823 Business Law 3 0 3 3 14 10 10 10 10 10 10 10 | 1512 | Microeconomics | 3 | | 3 |
| 1823 Business Law I 3 0 3 14 10 3 10 3 14 10 3 10 3 10 3 1502 Free Completes Speaking 3 0 3 7 3 7 3 7< | 1740 | Operating Systems I | 2 | | 3 |
| Eighth Term 9204 Co-Op Employment Business Tech 1 40 Ninth Term 1020 Effective Speaking 3 0 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | | | 3 | 7 | 6 |
| Eighth Term 9204 Co-Op Employment Business Tech 1 40 Ninth Term 1020 Effective Speaking 3 0 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | 1823 | Business Law I | 3 | 0 | 3 |
| 9204 Co-Op Employment Business Tech 1 40 Ninth Term 3 0 1020 Effective Speaking 3 0 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | | | 14 | 10 | 18 |
| 9204 Co-Op Employment Business Tech 1 40 Ninth Term 3 0 1020 Effective Speaking 3 0 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | Fi-Lal | estition 1 3 0 | ish Comp | 1 500 | 100 |
| 1020 Effective Speaking 3 0 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | | | 45, 91 90 | 40 | 28 2 |
| 1020 Effective Speaking 3 0 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | NI2-4L | Varieting1 | ciples of t | 1 Prin | 290 |
| 1502 Human Relations 3 0 1741 Operating Systems II 2 3 1761 Introduction to RPG 2 3 7 1771 Data Base Management Systems 2 3 | | | A KU CONQLO | 1111 | COL |
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| 1761 Introduction to RPG 2 | | | | | 3 |
| 1761 Introduction to RPG 2 | 1741 | Operating Systems II | 2 | 3 | 3 |
| 1771 Data Base Management Systems 2 3 | | | | 7 | 6 |
| 2903 Survey of Marketing | | | | | 3 |
| 0,0000000000000000000000000000000000000 | 2903 | Survey of Marketing | 3 | | 3 |
| 16 13 2 | | -, -, -, -, -, -, -, -, -, -, -, -, -, - | | - | 21 |

| ■ Tenth Term | | |
|-------------------------------------|----|-----|
| 9205 Co-Op Employment Business Tech | 40 | 2 |
| | | 108 |

Math Electives: 1124, 1126, 1127, 1128

Social Science Electives: 1505, 1506, 1513, 1521, 1524, 1527, 1535
*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 compatible 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 curriculum 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 | | Cree |
|--|------------------------------|--------|---------|
| autom has worn at socialisms vitualist as | Class | Lab | Hou |
| First Term bas formon of year dose belies | | | |
| 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 | 301 | 2 | 3 |
| alist installs and malatains the links of info | 17 | 8 | 19 |
| Second Term | vill include | rses v | Cou |
| 9200 Professional Practices | ngland Ele | 0 | 0 |
| 9201 Co-Op Employment Business Tech | | 40 | 3 |
| | 2 | 40 | 3 |
| Third Term | riguene | 100 | n the s |
| 1002 English Composition II | 3 | 0 | 3 |
| 1127 Business Statistics | | 0 | 4 |
| 1722 Advanced Basic Programming | 2 | 3 | 3 |
| 1761 Introduction to RPG 2 | | 7 | 6 |
| 2912 Principles of Accounting II | | 2 | 3 |
| 2912 Trinciples of Accounting if | 15 | 12 | 10 |
| 8 0 E 3 0 3 | sh Compos | land I | 001 |
| Fourth Term | duction to D | 40 | 073 |
| 9202 Co-Op Employment Business Tech | oJ gnimman | 40 | 5 |
| Fifth Term | ness Princip trical Funda | 5 Busi | 292 |
| 1505 Intro to Psychology I | 3 | 0 | 3 |
| 1512 Microeconomics | | 0 | 3 |
| 1742 COBOL Programming I | | 7 | 6 |
| 1781 Advanced RPG 2 | | 3 | 3 |
| 2913 Principles of Accounting III | 3 | 2 | 05(3 |
| nent Business Tech | 14 | 12 | 18 |
| Sixth Term | | | |
| 9203 Co-Op Employment Business Tech | 1 | 40 | 3 |
| Seventh Term 1988 | embler Lang | A Asse | 172 |
| 1010 Technical Writing I | | 0 | 3 |
| 1754 Data Communications | | 2 | 3 |
| 1762 COBOL Programming II | 3 | 00 7 S | 5 |
| 1763 Systems Analysis & Design | | 3 | 3 |
| 2903 Survey of Marketing | 3 | 0 | 3 |
| 2505 Saivey Striaineting | | - | - |
| 2921 Managerial Accounting | 3 | 0 | 3 |

| 9204 Co-Op Employment Business Tech | 1 | 40 | 2 |
|-------------------------------------|----|-----------------|------|
| Ninth Term | | | |
| 1020 Effective Speaking | 3 | 0 | 2 |
| 15xx Social Science Elective | 3 | 0 | 3 |
| 17xx MIS Elective | 2 | 3 | 3 |
| 1752 Real-Time Systems/Data Comm I | 2 | 3 | 3 |
| 1769 Program Data Base Application | 2 | 3 | 3 |
| 1823 Business Law I | 3 | 0 | 3 |
| 2926 Principles of Management | 3 | 0 | 3 |
| | 18 | 9 | 2 |
| Tenth Term | | sinq | ERES |
| 9205 Co-Op Employment Business Tech | 1 | 40 | 2 |
| | | | 110 |

Math Electives: 1124, 1126

Social Science Electives: 1502, 1506, 1513, 1521, 1524, 1527, 1535 Management Information Systems Elective: 1711, 1712, 1740, 1741 1764, 1771, 1861

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 compatible with 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 ensure that 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

| | | Hours Pe | rs Per Week Cre | Credi |
|--------------|-----------------------------------|----------|-----------------|--------|
| 6 | Accounting 8 2 | Class | Lab | Hours |
| First 7 | Term | | | |
| 1001 | English Composition I | . 3 | 0 | 3 |
| 1701 | Introduction to Data Processing | . 3 | 0 | 3 |
| 1702 | Introduction to Basic Programming | . 2 | 3 | 3 |
| 1721 | Programming Logic & Methods | . 2 | 3 | 3 |
| 2925 | Business Principles | . 3 | 0 | 3 |
| 7701 | Electrical Fundamentals I | . 4 | 2 | 4 |
| | | 17 | 8 | 19 |
| | nd Term | 9 beens | otoA I | 176 |
| | Professional Practices | | 0 | 0 |
| 9201 | Co-Op Employment Business Tech | 1_ | 40 | _ 3 |
| | | 2 | 40 | 0 |
| | | | erest d | PNIS B |
| Third | Term | | | |
| 1002 | English Composition II | . 3 | 0 | 3 |
| 1723 | Assembler Language I | . 2 | 4 | 4 |
| 1754 | Data Communications I | . 3 | 2 | 03 |
| 2911 | Principles of Accounting I | . 3 | 2 | 3 |
| 7702 | Electrical Fundamentals II | . 4 | 2 | 4 |
| | | 16 | 8 | 18 |
| | h Term | мпедып | ISPA T | 262 |
| 9202 | Co-Op Employment Business Tech | . 1 | 40 | 3 |

| | their level of expensence and applitude. | | | |
|---------|--|-----------|---------|-----------------|
| Fifth ' | | | | |
| 1010 | Technical Writing | 3 | 0 | 3 |
| 1739 | Operating Systems | 2 | 3 | 3 |
| 1763 | Systems Analysis & Design | 2 | 3 | 3 |
| 1764 | Data Communications II | | 2 | 4 |
| 2903 | Survey of Marketing | 3 | 0 | 3 |
| 2911 | Principles of Accounting I | 3 | _2_ | _ 3 |
| | | 16 | 10 | 19 |
| Sixth | Term | teileine | oz sek | iouis icirii |
| 9203 | Co-Op Employment Business Tech | ·ineline | 40 | 3 |
| | nth Term | | | |
| | Business Statistics | | 0 | 4 |
| | Human Relations | | 0 | 3 |
| 1512 | Microeconomics | 3 | 0 | 3 |
| 1771 | Data Base Management Systems | 2 | 3 | 3 |
| 1861 | | | 1 | 3 |
| 2912 | Principles of Accounting II | 3_ | 2 | 3 |
| | | 17 | 6 | 19 |
| | 1 Term | th Comp | ritsM s | 112 |
| 9204 | Co-Op Employment Business Tech | · noithub | 40 | 2 |
| Ninth | Term 2 | | staCl 9 | 171 |
| XXXX | Business Elective | 3 | 0 | 3 |
| | Effective Speaking | 3 | 0 | 3 |
| 15xx | Social Science Elective | | 0 | 3 |
| 1/84 | Networking | 3 | 2 | 4 |
| | Business Law I | 3 | 0 | 3 |
| 2926 | Principles of Management | 3_ | 0 | _3 |
| | | 18 | 2 | 19 |
| Tenth | | | | risiT. |
| 9205 | Co-Op Employment Business Tech | orino de | 40 | _2 |
| | | | | 10 |

Math Electives: 1124, 1126

Business Electives: 1135, 1139, 1761, 1811, 1820, 1867, 2902, 2923 2960,

297

Social Science Electives: 1505, 1506, 1509, 1513, 1521, 1523, 1524 1525, 1527, 1531, 1535, 1536, 1539, 1542, 1543

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, labor-management relations and management theories with practical applications. Through cooperative education work experience, students learn to handle directions and gain valuable insights into solving management problems.

Business Management Technology Curriculum

| | Hours Pe Class | r Week Lab | Credit |
|---|-------------------|---------------|--------|
| First Term | | | |
| 1001 English Composition I | 3 | 0 | 3 |
| 1121 Business Mathematics | | 0 | 3 |
| 1850 Computerized Business Applications | 2 | 3 | 3 |
| 2901 Principles of Marketing I | 3 | 0 | 3 |
| 2911 Principles of Accounting I | 3 | 2 | 3 |
| 2925 Business Principles | 3 | 0 | 3 |
| | 17 | 5 | 18 |
| Second Term | aduction to | I Intro | 176 |
| 9200 Professional Practices | a Base Ma | 0 | 0 |
| 9201 Co-Op Employment Business Tech | | 40 | 3 |
| 16 13 21 | 2 | 40 | 3 |

| Third | | | | |
|---------------------|--|-----|----------|--------|
| | Term | | west's | hhi i |
| | English Composition II | 3 | 0 | 3 |
| | Business Mathematics II | | 0 | 3 |
| | Principles of Salesmanship | 3 | _ | 3 |
| | Principles of Marketing II | | 0 | 883 |
| | Principles of Accounting II | | 2 | 3 |
| | Principles of Management | | 0 | 3 |
| 2920 | Filiciples of Management | | | |
| 31 | 2 41 | 18 | 2 | 18 |
| | h Term | | h Team | Sint ! |
| 9202 | Co-Op Employment Business Tech | 10 | 40 | 3 |
| Fifth 1 | | ma | enth Te | Sew |
| | Research & Argumentative Writing | 3 | 0 | 3 |
| 1123 | Business Mathematics III | 3 | 0 | 3 |
| 1832 | Personnel Management | 3 | 0 | 3 |
| 1861 | Electronic Spreadsheets | 2 | Busin | 3 |
| 2905 | Money and Banking | 3 | 0 | 3 |
| | Principles of Accounting III | | 2 | 3 |
| | 0 20 | 17 | 3 | 18 |
| | | 1/ | J | |
| Sixth | | 1 | 40 | 3 |
| 9203 | Co-Op Employment Business Tech | - | 40 | 3 |
| | nth Term | | | |
| | Business Communications | | | 3 |
| | Intro to Labor Management Relations | 3 | 0 | 3 |
| 1823 | Business Law I | 3 | 0 | 3 |
| 2921 | Managerial Accounting | 3 | 0 | 3 |
| 2960 | Principles of Finance | 3 | 0 | 3 |
| | Contemporary Management Concepts | 3 | 0 | 3 |
| | 0 6 | 18 | 0 | 18 |
| Eight | Torm | | pared of | Tool I |
| 9204 | Co-Op Employment Business Tech | 1 | 40 | 2 |
| Ninth | Torm | | | |
| | Oral Communication Elective | 3 | 0 | 3 |
| 15xx | Social Science Elective | 3 | 0 | 3 |
| 1512 | Micoreconomics | 3 | 0 | 3 |
| 1804 | Risk and Insurance | 3 | 0 | 3 |
| | Business Law II | 3 | 0 | 3 |
| | Business Elective | 3 | 0 | 3 |
| | Business Management Seminar | 3 | 0 | 3 |
| 2373 | The Annual Control of the Control of | | | 750000 |
| y, me | sups, sauces, butchery, vegetable cooker | 21 | 0 | 21 |
| Tenth | | 139 | sh coo | n bn |
| 9205 | Co-Op Employment Business Tech | | | 2 |
| | is accredited by the American Culinary y and Guilds of London Institute. | | | 106 |
| | | | | |
| | 1850 is a prerequisite for course 1732. | | | |
| usiness | Electives: 2961, 2962 | | | |
| usiness Iral Cor | 1850 is a prerequisite for course 1732. | | | |

Technology students. Its purpose is to start students into a math sequence which is compatible with their level of experience and aptitude.

Financial Management Technology (FM)

Financial Management is an option of the Business Management technology designed especially 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 much of the necessary background for careers in the financial industry.

Financial Management Technology Curriculum

| | Hours Pe | Week | Credit | |
|----------------------------|-----------------|------|--------|--|
| A godfa | Class | Lab | Hours | |
| ■ First Term | | | | |
| 1001 English Composition I | 3 | 0 | 3 | |

| - | Term | | | |
|----------------|--|----------------|-----------|--------|
| 3 | of Accounting 1 | 18 | 0 | 18 |
| 2975 | Business Management Seminar | 3 | 0 | _ 3 |
| | Investment Tax | 3 | 0 | 3 |
| | Financial Law | 3 | 0 | 3 |
| | Intro to Labor Management Relations | 3 | 0 | 3 |
| 1512 | Macroeconomics | 3 | 0 | 3 |
| | Oral Communication Elective | 3 | 0 | 3 |
| | | | - | |
| Eightl 9204 | Term Co-Op Employment Business Tech | 1 | 40 | 2 |
| | 408 | 17 | 4 | 10 |
| 2970 | Contemporary Management Concepts | 17 | 2 | 18 |
| | Investment Management I | 3 | 0 | 3 |
| | Principles of Finance | 3 | 0 | 3 |
| | Business Law I | 3 | 0 | 3 |
| | Computerized Financial Analysis | 2 | 2 | 3 |
| | Business Communications | 3 | 0 | 3 |
| | nth Term Approval | Electi | rmsi s | XXX |
| Sixth 9203 | Term Co-Op Employment Business Tech | 1 | 40 | 3 |
| 3 | ness Managoment II 3 0 | 17 | 3 | 18 |
| 2913 | Principles of Accounting III | 3 | 2 | 3 |
| | Money and Banking | 3 | 0 | 3 |
| | Electronic Spreadsheets | 2 | 1 | 3 |
| | Personnel Management | 3 | 0 | 3 |
| | Business Mathematics III | 3 | 0 | 3 |
| | Research & Argumentative Writing | 3 | 0 | 3 |
| Fifth | The Company of the Co | Ruci | Ism2 1 | 797 |
| | | Ele r t | 40 | 3 |
| Fourt | h Term | | urrell br | un'T |
| | | 18 | 2 | 18 |
| 2926 | Principles of Management | 3 | 0 | _ 3 |
| 2912 | Principles of Accounting II | 3 | 2 | 3 |
| | Principles of Marketing II | _ | 0 | 3 |
| | Principles of Salesmanship | _ | 0 | 3 |
| 1122 | Business Mathematics II | | 0 | 3 |
| Third 1002 | Term English Composition II | 3 | 0 | 3 |
| E | of Management 3 0 | ples | onna d | \$85 |
| 9201 | Co-Op Employment Business Tech | 2 | 40 | 3 |
| 9200 | Professional Practices | | | 0 |
| Coco | nd Term | | error C | o.e.Ed |
| | Hours Fer Weel | 17 | 5 | 18 |
| | Business Principles | 3 | 0 | 3 |
| | Principles of Accounting I | 3 | 2 | 3 |
| 2901 | Computerized Business Applications Principles of Marketing I | 2 | 0 | 3 |
| | | | | |

Oral Communication Electives: 1020, 1024

Small Business Management (SBM)

Small Business Management is another option of the Business Management Technology. This program is designed to provide the students with the knowledge to own and operate their own business. The courses will expose the student to the basic principles of management, marketing, accounting and other courses that are developed for those with this type of career in mind. The combination of courses and on-the-job training will give the students the necessary background for Small Business Management.

Small Business Management Certificate

| | 17 5 | Hours Pe | r Week | Credi | |
|---------|--|------------|--------|----------|--|
| | | Class | Lab | Hour | |
| First | | | | | |
| 1850 | Computerized Business Applications | . 2 | 3 | 3 | |
| 2901 | Principles of Marketing I | . 3 | 0 | 3 | |
| 2911 | Principles of Accounting I | . 3 | 2 | 3 | |
| 2926 | Principles of Management | . 3 | 0 | 3 | |
| | | 11 | 5 | 12 | |
| | nd Term | ness Ma | 2 Busi | 211 | |
| *xxxx | Tech Elective/Coordinator Approval | . 0 | 0 | 3 | |
| 1861 | Electronic Spreadsheet | . 2 | 1 0 | 3 | |
| 2902 | Principles of Marketing II | . 3 | 0 | 3 | |
| 2912 | Principles of Accounting II | . 3 | 2 | 3 | |
| | | 8 | 3 | 12 | |
| ■ Third | | | of di | une 3 88 | |
| *xxxx | Tech Elective/Coordinator Approval | . 0 | 0 | 3 | |
| 1810 | Principles of Salesmanship | . 3 | 0 | 3 | |
| 1832 | Personnel Management | . 3 | 0 | 3 | |
| 2971 | | . 3 | 0 | 3 | |
| | | 9 | 0 | 12 | |
| Fourt | | tronic S | ools L | 186 | |
| *xxxx | Tech Elective/Coordinator Approval | . 0 | 0 | 3 | |
| 1823 | Business Law I | . 3 | 0 | 3 | |
| 2960 | Principles of Finance | . 3 | 0 | 3 | |
| 2972 | Small Business Management II | . 3 | 0 | 3 | |
| | | 9 | 0 | 12 | |
| Fifth 1 | ferm . | 100 | -0.1 | 0.02 | |
| *xxxx | | 0 | 0 | 3 | |
| 1512 | Microeconomics | 3 | 0 | 3 | |
| 1804 | Risk and Insurance | 3 | 0 | 3 | |
| 1824 | Business Law II | 3 | 0 | 3 | |
| | | 9 | 0 | 12 | |
| | | | | 60 | |
| Tochnic | al electives must be approved by the according | voice ment | | 00 | |

^{*}Technical electives must be approved by the coordinator.

Small Business Management Technology

| | | Hours Per Week | | Credit |
|--|--|---------------------------------|---------------------------------|------------------|
| - | Unication bjective | Class | Lab | Hour |
| First 7 | erm erm | | | 101 |
| 1001 | English Composition I | . 3 | 0 | 3 |
| 1121 | Business Mathematics I | . 3 | 0 | 3 |
| 1850 | Computerized Business Applications | . 2 | 3 | 3 |
| 2903 | Survey of Marketing | . 3 | 0 | 3 |
| 2911 | Principles of Accounting I | . 3 | 2 | 3 |
| 2925 | Business Principles | . 3 | 0 | 3 |
| | | 17 | 5 | 18 |
| | | good of | 3 | 10 |
| Seco | nd Term | | | |
| 9200 | Professional Practices | 1 | 0 | 0 |
| | Co-Op Employment Business Tech | 1 | 40 | 3 |
| | | | | _ |
| | | 2 | 40 | 3 |
| Third | Term | | | |
| | | | | |
| xxxx | Tech Elective/Coordinator Approval | . 0 | 0 | 3 |
| 1002 | Tech Elective/Coordinator Approval English Composition II | | 0 | 3 |
| | English Composition II | . 3 | 0 | 3 3 |
| 1002 | English Composition II | . 3 | 0 0 0 | 3 3 3 |
| 1002 1122 | English Composition II Business Mathematics Social Science Elective | . 3 | 0 0 0 0 | 3 |
| 1002 1122 15xx | English Composition II Business Mathematics Social Science Elective Electronic Spreadsheet | . 3 | 0 0 0 0 1 | 1111 |
| 1002 1122 15xx 1861 2912 | English Composition II Business Mathematics Social Science Elective Electronic Spreadsheet Principles of Accounting II | . 3 | 0 0 0 0 1 2 | 3 3 3 |
| 1002 1122 15xx 1861 2912 | English Composition II Business Mathematics Social Science Elective Electronic Spreadsheet Principles of Accounting II | . 3 . 3 . 3 . 2 . 3 | | 3 3 3 3 |
| 1002 1122 15xx 1861 2912 | English Composition II Business Mathematics Social Science Elective Electronic Spreadsheet Principles of Accounting II | . 3 . 3 . 3 . 2 | 0 0 0 0 1 2 0 | 3 3 3 |
| 1002 1122 15xx 1861 2912 2912 | English Composition II Business Mathematics Social Science Elective Electronic Spreadsheet Principles of Accounting II | . 3 . 3 . 3 . 2 . 3 | | 3 3 3 3 |

| Term | | sur sit | reidi |
|------------------------------------|---|--|--|
| Tech Elective/Coordinator Approval | 0 | 0 | 2002 |
| Business Mathematics III | 3 | 0 | 122 |
| Principles of Salesmanship | 3 | 0 | 0183 |
| Personnel Management | 3 | 0 | 2003 |
| | | | 1103 |
| Small Business Management I | 3 | 0 | 0203 |
| 70 2 | 15 | 2 | 18 |
| Term | | th Term | Four |
| Co-Op Employment Business Tech | 10 | 40 | 0003 |
| | | Term | Fifth |
| Tech Elective/Coordinator Approval | 0 | 0 | 003 |
| Business Communications | 3 | 0 | 3 |
| Microeconomics | 3 | 0 | 83 |
| Business Law I | 3 | 0 | 883 |
| Money and Banking | 3 | 0 | 3 |
| Small Business Management II | 3 | 0 100 | 3 |
| | 15 | 0 | 18 |
| | | a Term | Sixtl |
| Co-Op Employment Business Tech | n1 q | 40 | 2 |
| | priv | eath Te | Seve |
| Tech Elective/Coordinator Approval | 0 | 0 | 3 |
| Group Dynamics & Problem Solving | 3 | 0 | 3 |
| Social Science Elective | 3 | 0 | 3 |
| Risk and Insurance | 3 | 6000 | 3 |
| Business Law II | 3 | 0 | 3 |
| Principles of Finance | 3 | 0.00 | 3 |
| | 15 | 0 | 18 |
| | | | |
| Co On Employment Business Tool | 1 | 40 | 2 |
| Co-Op Employment Business Tech | 110 | 40 | ~ ~ |
| | Tech Elective/Coordinator Approval Business Mathematics III Principles of Salesmanship Personnel Management Principles of Accounting III Small Business Management I Term Co-Op Employment Business Tech Tech Elective/Coordinator Approval Business Communications Microeconomics Business Law I Money and Banking Small Business Management II Term Co-Op Employment Business Tech Term Tech Elective/Coordinator Approval Group Dynamics & Problem Solving Social Science Elective Risk and Insurance Business Law II | Tech Elective/Coordinator Approval 0 Business Mathematics III 3 Principles of Salesmanship 3 Personnel Management 3 Principles of Accounting III 3 Small Business Management I 3 Term 1 Co-Op Employment Business Tech 1 Inth Term 1 Tech Elective/Coordinator Approval 0 Business Communications 3 Microeconomics 3 Business Law I 3 Money and Banking 3 Small Business Management II 3 15 1 Term 1 Co-Op Employment Business Tech 1 Term 1 Group Dynamics & Problem Solving 3 Social Science Elective 3 Risk and Insurance 3 Business Law II 3 Principles of Finance 3 | Tech Elective/Coordinator Approval 0 0 |

lectifical electives must be approved by the coordinat

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 Pe | urs Per Week | | irs Per Week Ci | Credit |
|-------|-------------------------------------|-----------------|--------------|-------|-----------------|--------|
| | | Class | Lab | Hours | | |
| First | ferm All vanalage dant teampers | | and in ou | | | |
| 1001 | English Composition I | . 3 | 0 | 3 | | |
| 1121 | Business Mathematics I | . 3 | 0 | 3 | | |
| 2801 | | . 3 | 0 | 3 | | |
| 2822 | Chef Basic Cookery I | . 2 | 4 | 3 | | |
| 2827 | Butchery & Fish Management | . 2 | 4 | 3 | | |
| 2925 | Business Principles | . 3 | 0 | 3 | | |
| 3007 | Introduction to Keyboarding | ganjam | 4 | 2 | | |
| | | 17 | 12 | 20 | | |
| | nd Term | | | | | |
| 9200 | Professional Practices | . 1 | 0 | 0 | | |
| 9201 | Co-Op Employment Business Tech | . 4 | 40 | 3 | | |
| | | 2 | 40 | 3 | | |
| Third | Term | | | | | |
| 1002 | English Composition II | . 3 | 0 | 3 | | |
| 1037 | Tech. French-Culinary Professionals | . 2 | 2 | 3 | | |
| 1122 | Business Mathematics II | . 3 | 0 | 3 | | |

| 2802 Food & Beverage Cost Control | . 3 | 0 | 3 |
|---|-----------|-------------|-------|
| 2808 Food and Beverage Lab I | . 0 | 4 | 1 |
| 2823 Chef Basic Cookery II | . 2 | 4 | 3 |
| 2911 Principles of Accounting I | 3_ | 2 | 3 |
| | 16 | 12 | 19 |
| Fourth Term 9202 Co-Op Employment Business Tech | . 1 | 40 | 3 |
| 3202 Co-Op Employment Business teen 111111 | iourus | inger at | 701 |
| Fifth Term another light A seementh best | purent | no Com | 8 |
| 1011 Business Communications | . 3 | 12 0000 | 3 |
| 1123 Business Mathematics III | . 3 | 0 0 | 3 |
| 2803 Menu Production & Purchasing | . 3 | 0 | 3 |
| 2824 Chef Advanced Cookery | | 4 | 3 |
| 2912 Principles of Accounting II | | 2 | 3 |
| 4130 Introduction to Nutrition | 3_ | | _ |
| | 17 | 6 | 18 |
| Sixth Term | कृतात पुर | 3-03-21 | 376 |
| 9203 Co-Op Employment Business Tech | . 1 | 40 | 3 |
| Seventh Term | ness Mi | 3 BUSIII | T I S |
| 1521 Introduction to Sociology | . 3 | 0 | 3 |
| 1502 Human Relations | . 3 | 0 | 3 |
| 1850 Computerized Business Applications | . 2 | 3 | 3 |
| 2805 Food & Beverage Supervision | | 0 | 3 |
| 2825 Pastry & Confectionary | . 4 | 8 | 6 |
| 18 2 18 | 15 | 11 | 18 |
| Eighth Term | | envesti chi | Sixi |
| 9204 Co-Op Employment Business Tech | . 1 | 40 | 2 |
| Ninth Term | HITE. | of files | 101 |
| 1020 Effective Speaking | . 3 | 0 | 3 |
| 1512 Microeconomics | . 3 | 0 | 3 |
| 1825 Hotel Law | | 0 | 2013 |
| 2821 Sales Techniques | . 3 | 0 | 0000 |
| 2826 Classical Cookery | 4 | 8 | _6 |
| | 16 | 8 | 1 |
| Tenth Term | | | |
| 9205 Co-Op Employment Business Tech | . 1 | 40 | 2 |
| 3203 Co-op Employment business teen | | | |

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 compatible with their level of experience and aptitude.

Graphic Communications Technology (GC)

At CTC, modern computerized typesetting equipment, letterpress and offset presses, screen printing and 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 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 cylinders.

Graphic Communications Technology Curriculum

| | Hours Pe | Week | Credit |
|---|----------|------|--------|
| addition to these specialized areas of trains | Class | Lab | Hours |
| ■ First Term 1015 Subbe 225 Mand Inches 10 9715 | | | |
| 1001 English Composition I | 3 | 0 | 3 |
| 1170 Introduction to Technical Mathematics . | | 0 | 4 |

| Flexo | nology Curriculum | | | |
|---------------|-------------------------------------|---------|---------|-------|
| | graphic Communications | | | |
| | | | | |
| | | | | |
| | Co-Op Employment Business Tech | wied | on 40 | 10000 |
| Tenth | | el Res | 10 | 2 |
| | (SH | 13 | 16 | 18 |
| 1521 | Introduction to Sociology | . 3 | 0 | 3 |
| | Photolithography II | . 2 | 3 | 3 |
| | Offset Press Operation | . 2 | 13 | 6 |
| 1428 | Management Survey | . 3 | 0 | 3 |
| | Technical Writing I | | 0 0 | 3 |
| Ninth | Term | | th Verm | nei |
| 9204 | Co-Op Employment Business Tech | | 40 | 2 |
| 3 | raphy II | godtilo | ted9_1 | 148 |
| 2311 | | | 14 | _ |
| 2911 | Principles of Accounting I | . 3 | 2 | 3 |
| 1823 | Business Law I | . 3 | 0 | 3 |
| 1430 | Relief Presswork I | . 1 | _ | |
| 1419 | Survey of Printing Inks | . 3 | 9 | 4 |
| 1007 | Research & Argumentative Writing | . 3 n | 0 | 3 |
| | th Term | | | |
| 9203 | Co-Op Employment Business Tech | ò saldi | 40 | 163 |
| Sixth | | | | 182 |
| | work! | 15 | | 21 |
| | Physical Science for GC | . 3 | 4 | |
| | Principles of Salesmanship | | | 3 |
| 1502 | Human Relations | . 3 | 0 | |
| 1450 | Estimating | . 2 | 3 | 3 |
| 1429 | Screen Printing | m1q0 | | |
| 1020 | Effective Speaking | . 3 | 0 | |
| Fifth 1 | ar ar | | | |
| Fourt 9202 | Term Co-Op Employment Business Tech | | | |
| 6 | ations | an Rel | 2 Hun | 150 |
| 8 | 2 3 | | 18 | 19 |
| 1850 | Computerized Business Applications | 2 | 3 | 3 |
| 1512 | Microeconomics | 3 | | |
| 1449 | Bindery Method/Procedures | 2 | 3 | - |
| 1421 | Cold Type Process | 2 | 3 | 3 |
| 1002 | English Composition II | 3 | 0 | |
| Third | | 2 | - 0 | 2 |
| or _ | teo pusit ses appareamons | 2 | 40 | 3 |
| 9201 | Co-Op Employment Business Tech | 00100 | 40 | 3 |
| 9200 | Professional Practices | er/Lvs | 0 0 | 0 |
| Secon | d Terms nonsisger | anita | 9 Estin | apr |
| | | 17 | 9 5 | 20 |
| 2925 | Business Principles | | 0 | _ 3 |
| | Graphic Arts Processes | 2 | 3 | 3 |
| | | | | |
| 1403 | Layout & Design | 2 | 6 | 4 |

| annicalian. | Hours Pe | lours Per Week | |
|--|----------|----------------|-------|
| | Class | Lab | Hours |
| ■ First Term | | | |
| 1001 English Composition I | . 3 | 0 | 3 |
| 1170 Introduction to Technical Mathematics | . 4 | 0 | 4 |
| 1401 Layout & Design | . 3 | 0 | 3 |
| 1403 Advertising Typography | | 6 | 4 |
| 1415 Graphic Arts Processes | | | 3 |
| 2925 Business Principles | | | 08.3 |
| to Hotel Management | 17 | 9 | 20 |
| nciples 3 0 3 | ness Pri | iau8 č | 292 |
| Second Term gnibroodysX ot i | | 0 | 0 |
| 9200 Professional Practices | . 1 | U | U |

| 9201 | Co-Op Employment Business Tech | 1 | 40 | 94 |
|-------|------------------------------------|--------|--------------------|------------|
| | | 2 | 40 | |
| Third | | A 4230 | metra c | 300 |
| | English Composition II | 3 | 0 | |
| | Cold Type Process | 1 | 9 | |
| | Estimating Preparation | 2 | 3 | |
| 1460 | Bindery Method/Procedures | 2 | 3 | |
| 1512 | Microeconomics | 3 | 0 | |
| 1850 | Computerized Business Applications | 2 | 3 | |
| | | 13 | 18 | - |
| Fourt | h Term i noilleagan | a) bla | anne la 2 Engle | 0.0 |
| 9202 | Co-Op Employment Business Tech | 1 | 40 | |
| Fifth | Term Zenabason Poorts | V yre | bnië û | A S |
| | Effective Speaking | 3 | 0 | |
| 1429 | Screen Printing | 1 | 9 | |
| 1450 | Estimating | 2 | 3 | |
| 1502 | Human Relations | 3 | 0 | |
| 1810 | Principles of Salesmanship | 3 | 0 | |
| 2263 | Physical Science for GC | 3 | 4 | |
| | , nysical science for Ge | 15 | 16 | U <u>X</u> |
| C' d | | | mnoT d | 911 |
| Sixth | | e avit | Datia Ci | |
| 9203 | Co-Op Employment Business Tech | 1 ns | 40 | |
| | nth Term | 2 ne | muH St | 92 |
| 1007 | Research & Argumentative Writing | 3 | 0 | |
| 1419 | Survey of Printing Inks | 3 | 0 | |
| 1430 | Relief Presswork I | 1 | 9 | |
| 1482 | Flexo Photography | 2 | 3 | |
| 1823 | Business Law I | 3 | 0 | |
| 2911 | Principles of Accounting I | 3 | 2 | |
| | | 15 | 14 | _ |
| Fight | Term E galitiW sviistesaugeA & | DITE. | T dines | 100 |
| | Co-Op Employment Business Tech | 1 | 40 | |
| Ninth | Term Lydgage | attilo | tori9 Of | il. |
| 1010 | Technical Writing I | 3 | 0 | |
| | Management Survey | 3 | 0 | |
| 1431 | Relief Presswork | 2 | 13 | |
| 1481 | Photolithography II | 2 | 3 | |
| 1521 | Introduction to Sociology | 3 | 0 | |
| | ngloyment Business Tech | | 16 | |
| Tenth | Term | | real Table | 182 |
| | Co-Op Employment Business Tech | 1 | 40 | |
| 1200 | | | | |

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 for the type of career they wish to follow in industry.

Hotel-Restaurant Technology Curriculum

| | Hours Per | | r Week | Credi |
|---|------------------|-------|---------|-------|
| E 0 E | | Class | Lab | Hours |
| ■ First Term | ag | doube | mayl- 0 | 771 |
| 1001 English Composition I | 00 | 3 | 0 | 3 |
| 1121 Business Mathematics I | . 8 | 3 | 0 | 3 |
| 1502 Human Relations | 17 | 3 | 0 | 3 |
| 2801 Food & Bev Sanitation/Safety/Service | 11 | 3 | 0 | 3 |
| 2811 Introduction to Hotel Management | | 3 | 0 | 3 |
| 2925 Business Principles | | 3 | 0 | 3 |
| 3007 Introduction to Keyboarding | | 1 | 4 | 2 |
| | | 19 | 4 | 20 |

| É | regade Cost Control | d files | boot \$ | 089 |
|----------|--|---------|---------|-------|
| Seco | nd Term | a bas | bord 8 | 089 |
| 9200 | Professional Practices | 1 | 0 | (|
| | Co-Op Employment Business Tech | 10 | 40 | 168 |
| | ST Al | | | _ |
| | | 2 | 40 | |
| Third | Term | - 0 | and the | woi |
| 1002 | English Composition II | 3 | 2 600 | 920 |
| 1122 | Business Mathematics II | | 0 | |
| | Computerized Business Applications | | 3 | hin |
| | Food & Beverage Cost Control | | 0 | 101 |
| 2808 | Food and Beverage Lab I | 0 | 4 8 | |
| 2012 | Hotal Front Office Night Audit Bros | | | 089 |
| | Hotel Front Office Night Audit Proc | 3 | 2 | CRE |
| 2911 | Principles of Accounting I | 3 | _2_ | 100 |
| | | 17 | 11 | 1 |
| Fourt | h Term | | | |
| | Co-Op Employment Business Tech | 1 | 40 | 3 |
| | TE T WAS DESCRIBED TO A SECOND | | mist d | bite |
| Fifth 1 | Design to the second se | 2 | | 740 |
| | Business Mathematics III | 3 | 0 | vail. |
| 1832 | Personnel Management | 3 | 0 | 3 |
| 2803 | Menu Production/Purchasing | 3 | 0 | 3 |
| 2815 | Princ and Practices of Hotel Mgmt | 3 | 0 | 3 |
| 2912 | Principles of Accounting II | 3 | 2 | 3 |
| 4130 | Introduction to Nutrition | 3 | 0 | 3 |
| | | 18 | 2 | 18 |
| Sixth | Term . | | | |
| 9203 | Co-Op Employment Business Tech | 1 | 40 | 3 |
| Seven | th Term | | | - |
| | Business Communications | 3 | 0 | 3 |
| | Microeconomics | 3 | 0 | 3 |
| 1521 | Introduction to Sociology | 3 | | |
| 2805 | Food & Beverage Supervision | | 0 | 3 |
| 2003 | Hotel Maintenance | 3 | 0 | 3 |
| | | 3 | 0 | 3 |
| 2928 | Hotel Restaurant Accounting | 3_ | 0 | 3 |
| | | 18 | 0 | 18 |
| Eighth | Term : | m 2 - 2 | ared th | NO.O. |
| 9204 | Co-Op Employment Business Tech | 1 | 40 | 2 |
| Ninth | Term salis of herestrinimhs and line test dram be | | | |
| | Effective Speaking | 3 | 0 | 3 |
| | Hotel Law | 3 | 0 | 3 |
| 2804 | Catering Banquets Beverage Management | 3 | 0 | 3 |
| | Basic Food Hotel/Restaurant | 2 | 4 | 3 |
| | Hotel Executive Housekeeping | | | |
| | Sales Techniques | 3 | 0 2 | 3 |
| | | | | _ |
| it, lett | in computerized typesetting equipmen | 17 | 6 | 18 |
| Tenth | | w ha | o uns e | E511 |
| 9205 | Co-Op Employment Business Tech | 1 | 40 | _2 |
| | | | | 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 compatible with their level of experience and aptitude.

International Commerce Technology Program (IC)

The International Commerce Technology Program at CTC is designed to train students for beginning work assignments in the rapidly expanding career of International Trade-Export Specialist. Students will be trained in special areas of expertise relating to the preparation and processing of international sales transactions. These areas include issuing quotations, coordinating shipment dates with production schedules, processing orders, planning shipments, preparing export documents, and performing post-shipment activities. In addition to these specialized areas of training, students will receive practical business education in business administration topics such as accounting, marketing, finance, law and management.

International Commerce Technology Curriculum

| rm English Composition I Business Mathematics I Computerized Business Applications Principles of Marketing I Principles of Accounting I | | 0 0 | Hour 3 |
|--|----------------------------|---|-------------|
| English Composition I Business Mathematics I Computerized Business Applications Principles of Marketing I | . 3 | 0 | |
| Business Mathematics I | . 3 | 0 | |
| Business Mathematics I | | And the state of the state of | 2 |
| Principles of Marketing I | . 2 | | 3 |
| | VALUE OF STREET | 3 | 3 |
| | . 2 | 0 | 3 |
| Tillelpies of Accounting L | | 2 | 3 |
| Business Principles | . 3 | 0 | 3 |
| | 17 | 5 | 18 |
| d Term Professional Practices | amil of | TO COLC | MINE MCP |
| Tolessional Flactices | | 0 | 0 |
| Co-Op Employment Business Tech | 1_ | 40_ | _ 3 |
| | 2 | 40 | 3 |
| Ferm and a management of a man merel | adents. | ne ygol | onda |
| English Composition II | . 3 | 0 | 3 |
| Business Mathematics II | . 3 | 0 | 3 |
| Export Procedure & Documentation | . 3 | 0 | 3 |
| | | 0 | 3 |
| | | 2 | 3 |
| | | 0 | 3 |
| and an understanding of accounting | 18 | 2 | 18 |
| Modern institutions, small arms remain | UNIAN I | Buildio | -00 Y |
| Co-Op Employment Business Tech | . 1 | 40 | 3 |
| ermonant danaganam ni noncara | of n | oblido | 3 |
| Dustriess matricination in 111111111111111111111111111111111 | | 0 | _ |
| | | | 3 |
| | | | 3 |
| Principles of Salemanship | . 3 | 0 | 3 |
| | | | 3 |
| Import Procedure & Documentation | . 3 | 0 | 3 |
| | 17 | 2 | 18 |
| Term Co-Op Employment Business Tech | . 1 | 40 | 3 |
| th Tarm | | mist | JE SE |
| | 3 | 0 | 3 |
| | ALSO VILLENIA | MILETER | 3 |
| | | EST Transmit | 3 |
| | | | 3 |
| | | 20.11 (252) | 3 |
| International Marketing Case Studies | | | 11000 |
| International Iransportation & Dist | | | 3 |
| | 18 | 0 | 18 |
| Co.On Employment Business Tech | 1 | 40 | 2 |
| The second secon | augilia s | 100 | 100 |
| Term Business Communications | . 3 | 0 | 3 |
| | | 0 | 3 |
| | | 0 | 3 |
| Risk & Insurance | | 0 | 3 |
| International Trade Seminar | . 3 | 0 | 3 |
| | . 3 | 0 | 3 |
| 001 | - | - | 18 |
| Tourse | | | |
| Co-Op Employment Business Tech | | 40 | _ 2 |
| | | 103 | |
| ry Electives, 1521, 1522, 1525, 1527 | | | |
| | | | |
| THE CONTRACTOR OF THE PARTY OF | | | |
| | Erm English Composition II | English Composition II 3 Business Mathematics II 3 Export Procedure & Documentation 3 Principles of Marketing II 3 Principles of Accounting II 3 Principles of Management 3 Term Co-Op Employment Business Tech 1 English Composition II 3 Principles of Accounting II 3 Principles of Management 3 Term Co-Op Employment Business Tech 1 Term Co-Op Employment Business Tech 3 Electronic Spreadsheets 2 Import Procedure & Documentation 3 Toth Term Co-Op Employment Business Tech 1 Term Critical Thinking & Writing 3 Labor Relations Elective 3 Business Law I 3 International Purchase & Finance 3 International Marketing Case Studies 3 International Transportation & Dist 3 Term Co-Op Employment Business Tech 1 Term Business Communications 3 Oral Comm. Elective 3 International Law 3 Risk & Insurance 3 International Trade Seminar 3 Business Elective 3 | Erm 3 0 |

Landscape Horticulture Technology (LH)

The Landscape 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. Landscape Horticulture students spend two terms (during the growing season) in cooperative employment during each of the two years in the program.

Landscape Horticulture Technology Curriculum

| | | lours Per | | Cred |
|--|--|---|----------------------------|------------------------|
| h ai b | trol program is one of the first of its kin | Class | Lab | Hour |
| First To | culum was established in collaborati mre | | | |
| 1001 | English Composition I | . 3 | 0 | 3 |
| 11xx | Math Elective | . 4 | 0 0 | 4 |
| | Human Relations | | | |
| 3500 | Orient to Horticulture Occupation | 1 | 0 | 1 |
| 3502 | Horticulture Science | 2 | 2 | 3 |
| 3504 | Woody Plant Materials I | 2 | 3 | 3 |
| 3304 | Woody Flant Materials I | 15 | 5 | 17 |
| | | loni | no) | 220 |
| Secon | English Composition II |) y | olon | dos |
| 1002 | English Composition II | . 3 | 0 | 3 |
| | Chemistry Elective | | 2 | 4 |
| 2925 | Business Principles | . 3 | 0 | 3 |
| | Small Engine Maintenance & Repair | | 3 | 3 |
| 3532 | Landscape Management | 2_ | 3 | 3 |
| | | 13 | 8 | 16 |
| Third | Torm # Difficer Training | ess Ma a Police | Privat | 1201 |
| | Social Science Elective | . 3 | 0 | 013 |
| | Principles of Accounting I | | 2 | 313 |
| 2501 | Soils & Plant Nutrition | . 3 | _ | 3 |
| 3501 | Soils & Plant Nutrition | . 3 | 3 | 3 |
| | Principles of Landscape Design | | | 3 |
| | Greenhouse Management | | 3 | |
| 3530 | Horticulture Seminar I | . 1 | marth. | 1020 |
| | | 14 | 9 | 16 |
| E. | ovment Brainess Tech | larri o | U-OJ | TUNE |
| | h Term | . 1 | 0 | 0 |
| | Professional Practices | | | |
| 9501 | Co-Op Employment OHOF Tech | 1_ | 40 | 3 |
| | | 2 | 40 | 2003 |
| Fifth | Topm 5 Views | nee helv | ezi-brit | 1214 |
| | Technical Writing I | . 3 | 0 | 3 |
| 3505 | Herbaceous Plant Material | | 2 | 3 |
| 3505 | Terfores Management | . 2 | 3 | 3 |
| | Turfgrass Management | | | 3 |
| | Landscape Construction | | 5 | |
| 3521 | Entomology/Plant Pathology | 2 | 2 | 3 |
| | | 10 | 12 | 15 |
| £ | Term | HUH DE | | 2023 |
| Sixth | Co-Op Employment OHOF Tech | . 1 | 40 | 3 |
| Sixth 9502 | Co-Op Employment Of Ior Tech | Will Look | | 100 3 34 4 |
| 9502 Seve | nth Term | cal We ve Spei | Techni Erfecti | |
| 9502 Seve | nth Term | cal We ve Spei | 0 | 020 |
| 9502 Seve 102x | nth Term Oral Communication Elective | cal We ve Spei | 0 0 | 3 |
| 9502 Sever 102x 151x | orth Term Oral Communication Elective | . 3 | 0 | 3 |
| 9502 Sever 102x 151x 1850 | orth Term Oral Communication Elective Economics Elective Computerized Business Applications | . 3 . 3 . 2 | 0 | 3 |
| 9502 Sever 102x 151x 1850 2926 | Oral Communication Elective Economics Elective Computerized Business Applications Principles of Management | . 3 . 3 . 2 . 3 | 0 3 0 | 3 3 |
| 9502 Sever 102x 151x 1850 2926 35xx | Oral Communication Elective | . 3 . 3 . 2 . 3 | 0 3 0 3 | 3 3 3 |
| 9502 Sever 102x 151x 1850 2926 35xx | Oral Communication Elective Economics Elective Computerized Business Applications Principles of Management | . 3 . 3 . 2 . 3 . 2 | 0 3 0 3 3 | 3 3 3 3 3 |
| 9502 Sever 102x 151x 1850 2926 35xx | Oral Communication Elective | . 3 . 3 . 2 . 3 | 0 3 0 3 3 | 3 3 3 3 |
| 9502 Seven 102x 151x 1850 2926 35xx 3515 | Oral Communication Elective | . 3 . 3 . 2 . 3 . 2 . 2 | 0 3 0 3 3 9 | 3 3 3 3 3 3 18 |
| 9502 Sever 102x 151x 1850 2926 35xx 3515 Eight 1810 | Oral Communication Elective | . 3 . 3 . 2 . 3 . 2 . 2 | 0 3 0 3 3 9 | 3 3 3 3 18 |
| 9502 Sever 102x 151x 1850 2926 35xx 3515 Eight 1810 1823 | Oral Communication Elective | . 3 . 2 . 3 . 2 . 2 . 2 . 15 | 0 3 0 3 3 9 | 3 3 3 3 18 |
| 9502 Sevei 102x 151x 1850 2926 35xx 3515 Eight 1810 1823 35xx | Oral Communication Elective | . 3 . 2 . 3 . 2 . 2 . 15 | 0 3 0 3 3 9 | 3 3 3 3 18 |
| 9502 Sevel 102x 151x 1850 2926 35xx 3515 Eight 1810 1823 35xx 35xx | Oral Communication Elective | . 3 . 3 . 2 . 3 . 2 . 2 . 2 . 15 | 0 3 0 3 3 9 | 3 3 3 3 18 |

| 3531 Horticulture Seminar II | 1 | 1 | 1 |
|---|-------|--------|---------|
| | 13 | 11 | 16 |
| ■ Ninth Term 9503 Co-Op Employment OHOF Tech | dis | 40 | 3 |
| ■ Tenth Term 9504 Co-Op Employment OHOF Tech | 1 l | 40 | 2 109 |
| Math Electives: 1170, 1171, 1172, 1173, 1179, 1191, 1192, 1190 Oral Communication Electives: 1020, 1024 Technical Electives: 3506, 3507, 3519, 3533, 3534, 3530 Chemistry Electives: 2200, 2209 Social Science Electives: 1505, 1506, 1507, 1508, 1509, 1500 Economics Elective: 1512, 1513 | 5, 35 | 40, 35 | 5 44 |

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 for 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

| 5 | | Hours Per Week | | Cred |
|--|---|----------------------------|---------------------------------|-----------------------------|
| - 22 | amtenance & Repair 2 3 | Class | Lab | Hou |
| First | | | | |
| 1001 | English Composition I | 3 | 0 | 3 |
| 1121 | Business Mathematics I | 3 | 0 | 3 |
| 1201 | Private Police Officer Training | 3 | 6 | 6 |
| 1210 | Intro to LC Security Administration | 3 | 0 | 3 |
| 1216 | Security Administration I | 3 | 0 | 3 |
| 2926 | Principles of Management | 3 | 0 | 3 |
| | | 18 | 6 | 21 |
| | nd Term | ISC SUBJECT | ChoH I | JESE |
| 9200 | Professional Practices | 1 | 0 | 0 |
| 9201 | Co-Op Employment Business Tech | 1 | 40 | 3 |
| | | | - 10 | - |
| 0 | O f esotion | 2 foods | 40 | 3 |
| | Term OHOF Tech | p Limploye | 0-00 | 9501 |
| 1002 | English Composition II | 3 | 0 | 3 |
| 1122 | Business Mathematics II | 3 | 0 | 3 |
| 1211 | Industrial Security | 3 | 0 | 3 |
| 1217 | Security Administration II | 3 | 0 | 3 |
| 1220 | Fund of Fire Protection | 3 | 0 | 3 |
| 2927 | Security Management | 3 | 0 | 3 |
| | | 18 | 0 | 18 |
| Fourt | h Term | ST TO GOIGH | 110,000,100 | 200 |
| 9202 | Co-Op Employment Business Tech | 1 | 40 | 3 |
| | | | | |
| Fifth ' | Term OHOE Tech | volum3 at | 0-03 S | Hode 1088 |
| 1010 | Technical Writing I | volger3 gr | 0 | 3 |
| 1010 | Technical Writing I | 3 | 0 | 3 |
| 1010 1020 | Technical Writing I | 3 | 0 0 | 3 |
| 1010 1020 1123 | Technical Writing I Effective Speaking Business Mathematics III | 3 | 0 | 3 |
| 1010 1020 1123 1203 | Technical Writing I Effective Speaking Business Mathematics III Security Investigation | 3 | 0 | 3 3 |
| 1010 1020 1123 1203 1208 | Technical Writing I Effective Speaking Business Mathematics III Security Investigation Criminal Law I | 3 | 0 0 | 3 3 3 |
| 1010 1020 1123 1203 1208 | Technical Writing I Effective Speaking Business Mathematics III Security Investigation | 3 3 3 | 0 0 0 0 | 3 3 3 3 3 |
| 1010 1020 1123 1203 1208 | Technical Writing I Effective Speaking Business Mathematics III Security Investigation Criminal Law I | 3 | 0 0 | 3 3 3 |
| 1010 1020 1123 1203 1208 1230 Sixth | Technical Writing I Effective Speaking Business Mathematics III Security Investigation Criminal Law I Safety Management | 3 3 3 3 3 | 0 0 0 0 | 3 3 3 3 3 |
| 1010 1020 1123 1203 1208 1230 Sixth | Technical Writing I Effective Speaking Business Mathematics III Security Investigation Criminal Law I Safety Management | 3 3 3 3 3 | 0 0 0 0 | 3 3 3 3 3 |
| 1010 1020 1123 1203 1208 1230 Sixth 9203 | Technical Writing I Effective Speaking Business Mathematics III Security Investigation Criminal Law I Safety Management Term Co-Op Employment Business Tech | 3 3 3 3 3 18 | 0 0 0 0 0 0 | 3 3 3 3 3 18 |
| 1010 1020 1123 1203 1208 1230 Sixth 9203 | Technical Writing I Effective Speaking Business Mathematics III Security Investigation Criminal Law I Safety Management Term Co-Op Employment Business Tech Oth Term Comm Skill/Soc. Sci. Elective | 3 3 3 3 3 | 0 0 0 0 0 | 3 3 3 3 3 18 |
| 1010 1020 1123 1203 1208 1230 Sixth 9203 Seven 1xxx 1204 | Technical Writing I Effective Speaking Business Mathematics III Security Investigation Criminal Law I Safety Management Term Co-Op Employment Business Tech th Term Comm Skill/Soc. Sci. Elective Personnel Security System | 3 3 3 3 3 1 | 0 0 0 0 0 | 3 3 3 3 18 |
| 1010 1020 1123 1203 1208 1230 Sixth 9203 Seven 1xxx 1204 1209 | Technical Writing I Effective Speaking Business Mathematics III Security Investigation Criminal Law I Safety Management Term Co-Op Employment Business Tech | 3 3 3 3 18 | 0 0 0 0 0 0 0 | 3 3 3 3 18 |

| 1535 1823 | Intro to Labor Management Relations | 3 | 0 | 3 |
|--------------|---|-------|-------|--------|
| 2909 | Office Accounting I | E and | 2 | _3 |
| | | 20 | 5 | 21 |
| Eighth | | | | |
| 9204 | Co-Op Employment Business Tech | 1 | 40 | 2 |
| Ninth | | | Tours | banda. |
| 1205 | Criminal Interrogation | 3 | 0 | 3 |
| 1303 | THU TO EST CHOICE TO THE TENT OF THE TENT | 3 | 0 | 3 |
| 1300 | intio to Esychology II | 3 | 0 | 3 |
| 1321 | HILLOUUCHON TO SOCIOIOSV | 4 | 0 | 3 |
| 1850 | Computerized Business Applications | 2 | 3 | 3 |
| 2903 | Survey of Marketing | 3 | 0 | 3 |
| | | 17 | 3 | 18 |
| Tenth | Term | | ror a | |
| 9205 | Co-Op Employment Business Tech | 1 | 40 | 2 |
| | | | | 109 |

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 compatible with their level of experience and aptitude.

Managerial Accounting Technology (MG)

Managerial Accounting provides students knowledge of business fundamentals and an understanding of accounting skills. Students are provided an opportunity to enhance their skills by co-oping with financial institutions, small and large CPA firms, manufacturing and service companies and governmental agencies.

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

Managerial Accounting Technology Curriculum

| | | Hours Per Week | | | Credi |
|---------|------------------------------------|----------------|-----------|------|-------|
| i. | syment Business Tech 1 40 | Class | Lab | Hour | |
| First 1 | | | 700 (200) | | |
| 1001 | English Composition I | . 3 | 0 | 3 | |
| 1121 | Business Mathematics | . 3 | 0 | 3 | |
| 1850 | Computerized Business Applications | . 2 | 3 | 3 | |
| 2911 | Principles of Accounting I | . 3 | 2 | 3 | |
| 2925 | Business Principles | . 3 | 0 | 3 | |
| 2960 | Principles of Finance | . 3 | 0 | 3 | |
| | | 17 | 5 | 18 | |
| 31. | 0 81 | 17 | 3 | 10 | |
| Secon | nd Term | | | | |
| 9200 | Professional Practices | . 1 | 0 | 0 | |
| 9201 | Co-Op Employment Business Tech | lgm3 g | 40 | 3 | |
| | | 2 | 40 | | |
| | | 2 | 40 | 3 | |
| Third | Term | 100 stol | Dusti | 101 | |
| 10xx | English Composition Elective | . 3 | 0 | 3 | |
| 1122 | Financial Analysis | 3 | 0 | 3 | |
| 1823 | Business Law I | . 3 | 0 | 3 | |
| 1861 | Electronic Spreadsheet | . 2 | 1 | 3 | |
| 2912 | Principles of Accounting II | 3 | 2 | 3 | |
| 2917 | Federal Taxation I | . 3 | 0 | 3 | |
| | | 17 | 3 | | |
| | | 17 | 3 | 18 | |
| Fourth | Term Pusiness lech mraT | igms gi | J-607 | SUZE | |
| 9202 | Co-Op Employment Business Tech | . 1 | 40 | 3 | |
| Fifth T | erm | | | 7 | |
| 1007 | Critical Thinking & Writing | 3 | 0 48 | 000 | |
| 1123 | Business Mathematics III | 3 3 2 | 0 | 3 | |
| | Business Law II | ng sol | 0 | 2 | |
| | Business Elective | | U | 3 | |

| 2913 Principles of Accounting III 2914 Cost Accounting I 2926 Principles of Management Sixth Term 9203 Co-Op Employment Business Tech Seventh Term 1011 Business Communications 15xx Social Science Elective 2903 Survey of Marketing | 3 | 2 0 0 2 40 | 3 3 21 3 |
|---|------------------|------------------------|----------|
| 2914 Cost Accounting I 2926 Principles of Management Sixth Term 9203 Co-Op Employment Business Tech Seventh Term 1011 Business Communications 15xx Social Science Elective | 21 4 3 3 3 3 3 3 | 40 | 3 21 3 |
| Sixth Term 9203 Co-Op Employment Business Tech Seventh Term 1011 Business Communications 15xx Social Science Elective. | 21 4 3 3 3 3 3 3 | 40 | 3 |
| Sixth Term 9203 Co-Op Employment Business Tech Seventh Term 1011 Business Communications 15xx Social Science Elective | 3 3 3 3 | 0 | 3 20 |
| 9203 Co-Op Employment Business Tech | 3 | 0 | 3 |
| Seventh Term 1011 Business Communications | 3 | 0 | 3 |
| 1011 Business Communications | 3 | 0 | 3 |
| 15xx Social Science Elective | 3 | 0 | 3 |
| | 30 | 0 | |
| 2903 Survey of Marketing | | | 3 |
| 2505 Saivey Oriviancelling | 2 | 0 | 3 |
| 2915 Cost Accounting II | 3 | 0 | 3 |
| 2918 Federal Taxation II | 3 | 0 | 3 |
| 2919 Intermediate Accounting I | 3 | 0 | 3 |
| urriculum | 18 | 0 | 18 |
| Eighth Term | | | |
| 9204 Co-Op Employment Business Tech | 1 | 40 | 2 |
| Ninth Term I noticogn | n Con | Englis | 1001 |
| 102x Oral Communication Elective | 3 | 0 | 3 |
| 15xx Social Science Elective | _ | 0 | 3 |
| 1512 Micro Economics | - | 0 | 3 |
| 1851 Auditing | 3 | 0 | 3 |
| 2920 Intermediate Accounting II | 3 | 0 | 3 |
| 2921 Managerial Accounting | 3 | 0 | 3 |
| | 18 | 0 | 18 |
| Tenth Term | BOOK | estov9 (| 92200 |
| 9205 Co-Op Employment Business Tech | 1 | 40 | 2 |
| 2 40 3 | | | 106 |
| English Composition Electives: 1002, 1008, 1009, 1010 | | | 100 |

English Composition Electives: 1002, 1008, 1009, 1010 *Business Elective: See coordinator for approval.

Social Science Electives: 1502, 1505, 1506, 1508, 1509, 1510, 1513, 1521,

1523, 1525, 1527

Oral Comm. Electives: 1020, 1024

Property Management Technology (PM)

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 designed for parallel co-op.

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

Property Management Technology Curriculum

| | | Hours Pe | Hours Per Week | |
|---------|------------------------------------|----------|----------------|-------|
| t | D I I BORDEN | Class | Lab | Hours |
| First 7 | [erm | | | |
| 1001 | English Composition I | . 3 | 0 | 3 |
| 1121 | Business Mathematics | . 3 | 0 | 3 |
| 2925 | Business Principles | . 3 | 0 | 3 |
| | On-Site Property Management I | | 0 | 3 |
| 2951 | Real Estate Principles & Practices | . 3 | 0 | 3 |
| 3005 | Administrative Typing | . 2 | 3 | 3 |
| | Intro to Keyboarding | | 4 | 2 |
| | | 18 | 7 | 20 |
| | nd Term | s Manag | Sitts Parso | 1837 |
| 9200 | Professional Practices | . 1 | 0 | 0 |
| 9201 | Co-Op Employment Business Tech | 1_ | 40 | 3 |
| | | 2 | 40 | 3 |

| Third Te | erm Insmegans | Mai | nasn | 28 |
|----------|---------------------------------------|----------------------|-----------|--------|
| 1007 C | Critical Thinking & Writing | . 3 | 0 | |
| | Nath Elective | . 4 | 0 | |
| | usiness Mathematics II | | 0 | 10 |
| | Computerized Business Applications | | 3 | |
| | rinciples of Management | | 0 | - |
| 2032 (| On-Site Property Management II | . 3 | 0 | iev |
| | eal Estate Law | mg d | 0 | 106 |
| 2933 K | Prints | 907 50 | I THINK ! | 150 |
| | hemanics 3 : 0 | 21 | 3 | 2 |
| Fourth | | anerizo | Comp | |
| 9202 C | Co-Op Employment Business Tech | nin91 ₂₈₅ | 40 | 3.0 |
| Fifth Te | | | × . | |
| 1011 B | usiness Communications | . 3 | 0 | in the |
| 1123 B | usiness Mathematics III | . 3 | 0 | SC P |
| 1502 H | luman Relations | . 3 | 0 | DO C |
| 2911 P | rinciples of Accounting I | . 3 | 2 | |
| 2933 E | xecutive Level Property Management | . 3 | 0 | |
| | esidential Construction | | 0 | |
| | eal Estate Appraisal I-Residential | . 3 | 0 | |
| ξ : | position II | 21 | 2 | UUU. |
| Sixth Te | erm a standahees | OROUS NO. | Parte | T C |
| 9203 C | Co-Op Employment Business Tech | 10 | 40 | re |
| Sevent | h Term | 10 0019 | 13/11/19 | |
| 1513 N | Macroeconomics | . 3 | 0 | |
| | lectronic Spreadsheets | | 1 | |
| 2901 P | rinciples of Marketing I | . 3 | 0 | |
| 2912 P | rinciples of Accounting II | . 3 | 2 | |
| | nstitutional Property Management | | 0 | |
| | leal Estate Finance | . 3 | 0 | MIT. |
| | | 17 | 3 | EQ. |
| Eighth 1 | Term & substitution | brief Pa | indust | 18 |
| 9204 (| Co-Op Employment Business Tech | va leso | 40 | 823 |
| Ninth T | erm | - | 3 | |
| 102x C | Oral Communication Elective | . 3 | 0 | |
| | ocial Science Elective | | 0 | |
| 1524 S | tress Management | . 3 | 0 | |
| | Personnel Management | | 0 | |
| | rinciples of Marketing II | | 0 | |
| | roperty Management Case Study | | 0 | |
| - | | 18 | 0 | HE |
| E E | astesmans property and a charging a n | d loo | Advan | 178 |
| Tenth To | | ME LEGG | Busin | 824 |
| 9205 C | Co-Op Employment Business Tech | on don | 40 | EB |
| | | | | 1 |

Oral Comm. Electives: 1020, 1024

Social Science Electives: 1505, 1506, 1512, 1535, 1536

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 compatible with their level of experience.

Purchasing Management Technology (PM)

Purchasing is very important to a company's operations and profits. Approximately 50 cents of every dollar received by a company is spent on the purchase of goods and services.

Because of this, business is constantly searching for individuals who understand the fundamentals of effective purchasing practice.

A career in purchasing offers individuals above-average earnings and the opportunity to work with many professionals within their company and from the companies that call on them.

This program was designed with the help and cooperation of many leading purchasing professionals in the Greater Cincinnati area.

Purchasing Management Technology Curriculum

| | | Hours Pe Class | Lab | Credi |
|--|--|-----------------------|---|----------------------|
| First 1 | erm (International International Internation | The state of | S write | CEDE |
| 1001 | English Composition I | . 3 | 0 | 3 |
| | Effective Speaking | | 0 | 3 |
| 1121 | Business Mathematics | | 0 | 3 |
| | | | 100 | |
| | Human Relations | | 0 | 3 |
| | Computerized Business Applications | | 3 | 3 |
| 2925 | Business Principles | . 3 | 0 | 3 |
| | | 17 | 3 | 18 |
| C | anunications | (6U 229 | nieusi mensi | TEST |
| | Professional Practices | 11 | 0 | 0 |
| | Co-Op Employment Business Tech | islay na | 40 | 3 |
| 3201 | Co-Op Employment business teem | to cole | A 19 1 1 | - |
| | | 2 | 40 | 3 |
| Third | | erman e Estate A | Real | 2955 |
| 1002 | English Composition II | . 3 | 0 | 3 |
| | Business Mathematics II | | 0 | 3 |
| | Microeconomics | | 0 | 3 |
| | | | market and the second | |
| | Electronic Spreadsheets | | 1 | 3 |
| | Principles of Accounting I | | 2 | 3 |
| | Principles of Management | | 0 | 3 |
| | | 0.000 | 3 | NA SPECIAL PROPERTY. |
| £ | mics3 O | 17 | 3 | 18 |
| The state of the s | h Term | no solini | theur Franc | Page |
| 9202 | Co-Op Employment Business Tech | . 1 | 40 | 3 |
| Fifth 1 | [erm | Harting Harts | disent t | 1001 |
| 1011 | Business Communications | . 3 | 0 | 3 |
| 1123 | Business Mathematics III | | 0 | 3 |
| | Macroeconomics | | 0 | 3 |
| | | | 100000000000000000000000000000000000000 | |
| | Industrial Purchasing | | 0 | 3 |
| | Business Law I | | 0 | 3 |
| 2912 | Principles of Accounting II | 3 | 2 | 3 |
| | | 18 | 2 | 18 |
| Sixth 9203 | Term Co-Op Employment Business Tech | il Science s Menae | 40 | 3 |
| Sava | nth Term | TO ERRO | Srene : | 7907 |
| | Math Elective | . 3 | 0 | 3 |
| | Principles of Salesmanship | | 0 | 3 |
| | | | | |
| | Advanced Purchasing | | 0 | 3 |
| | Business Law II | | 0 | 3 |
| | Personnel Management | | 0 | 3 |
| | Money & Banking | | 0 | 3 |
| 2913 | Principles of Accounting III | . 3 | 2 | 3 |
| 2313 | Timespies of Accounting III | 21 | 2 | 21 |
| | g 1020, 1024 · | 21 perive | a .mmc | 21 |
| | Term | virsed a | 40 | I I I I |
| 9204 | Co-Op Employment Business Tech | adents. | 40 | 2 |
| | Term somenegys to take I find the | v sldte | s com | HIDIO |
| | Technology & Ethical Decisions | . 3 | 0 | 3 |
| 1819 | Contemporary Purchasing Issues | . 2 | 1 | 3 |
| | Offshore Sourcing | . 3 | 0 | 3 |
| | Survey of Marketing | . 3 | 0 | 3 |
| | Principles of Finance | . 3 | 0 | 3 |
| | | | | |
| /005 | Basic Blueprint Reading & Sketching | 2_ | 2 | 3 |
| | | 16 | 3 | 18 |
| Tenth | Term . Partition and services . mrsT | di no t | sapen | YEL |
| | Co-Op Employment Business Tech | eiri lo | 40 | 2 |
| | | | | 109 |
| ath Ele | ectives: 1125, 1127, 1153 | | | |
| nine | tunity to work with many professionals | | | |
| | tunity to work with many professionals | | | |

If you are outgoing and flexible, if you are looking for a career in

Typing, Math

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.

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.

Co-op employment is available in Real Estate based on the availability of co-op employers.

Real Estate Technology Curriculum

| | | Hours Pe | | Credi |
|--|---|--------------|----------------------------------|----------------------------------|
| | rmont Business Tech | Class | Lab | Hour |
| First | | | | |
| 1001 | English Composition I | 3 | 0 | 3 |
| | Business Mathematics | | 0 | 3 |
| 2925 | Business Principles | 3 | 0 | 3 |
| 2951 | Real Estate Principles & Practices | 3 | 0 | 3 |
| | Real Estate Law | | 0 | 3 |
| 3007 | Intro to Keyboarding | A esta ben | 4 | 2 |
| 8 | counting 3 0 | 16 | 4 | 17 |
| gr | 9 31 | | | |
| | nd Term | 1 | 0 | 0 |
| | Professional Practices | | 0 | |
| 9201 | Co-Op Employment Business Tech | rolania o | 40 | 3 |
| | | 2 | 40 | 3 |
| Third | Term 1002, 1008, 1009, 1010 mrsT | sition Ele | Compo | dailgo |
| | Critical Thinking & Writing | 3 | 0 | 3 |
| | Business Mathematics 2 | | 0 | |
| | Computerized Business Applications | | 3 13 | _ |
| | | | 0 | 3 |
| | Principles of Management | | 0 | _ |
| | Real Estate Sales | | 0 | 3 |
| 2954 | Real Estate Finance | | 0 | 3 |
| | | 17 | 3 | 18 |
| Fourt | college in the country to offer methal | teril ad | t akw | OTO |
| | Co-Op Employment Business Tech | virsto | 40 | 3 |
| Fifth ' | Term | m sens | oo da | odbe |
| | Business Communications | 3 | 0 | 3 |
| 1122 | Business Mathematics III | 3 | 0 | 3 |
| 1502 | Human Relations | . 3 | 0 | 3 |
| 1502 | Disciples of Mandages | 3 | 0 | 3 |
| | Principles of Marketing I | | - | _ |
| | Money and Banking | | 0 | 3 |
| | Principles of Accounting I | | | 3 |
| | Real Estate Appraisal I - Residential | | 0 | 3 |
| | | 21 | 2 | 21 |
| Sixth | Term | ans don | IO VUIN | Ibliby |
| | Co-Op Employment Business Tech | 1 | 40 | 3 |
| Sever | nth Term | nese. | VITTO | Tor- |
| | Macroeconomics | 3 | 0 | 3 |
| | Risk and Insurance | 3 | 0 | 3 |
| | Electronic Spreadsheets | | 1 | 3 |
| | | | | |
| 2902 | Principles of Marketing II | 3 | 0 | 3 |
| 2012 | Principles of Accounting II | 3 | 2 | 3 |
| 2912 | | | | |
| 2912 | Real Estate Brokerage | 3 | 0 | 3 |
| 2912 | Real Estate Brokerage | 3 | 3 | 18 |
| 2912 2952 | Real Estate Brokerage | Charles I de | 107700 | CHEAT. |
| 2912 2952 Eight | h Term Co-Op Employment Business Tech | 17 | 107700 | C10.3.7 |
| 2912 2952 Eight 9204 | h Term Co-Op Employment Business Tech | 17 | 3 | 18 |
| 2912 2952 Eight 9204 Ninth | h Term Co-Op Employment Business Tech | 1 | 3 40 | 18 |
| 2912 2952 Eight 9204 Ninth | h Term Co-Op Employment Business Tech | 17 1 | 40 | 2 3 |
| 2912 2952 Eightl 9204 Ninth 102x 15xx | h Term Co-Op Employment Business Tech | 1 | 3 40 0 0 | 18 2 3 3 |
| 2912 2952 Eight 9204 Ninth 102x 15xx 1524 | h Term Co-Op Employment Business Tech Oral Communications Elective Social Science Elective Stress Management | 1 | 3 40 0 0 0 | 18 2 3 3 |
| 2912 2952 Eight 9204 Ninth 102x 15xx 1524 1832 | h Term Co-Op Employment Business Tech Oral Communications Elective Social Science Elective Stress Management Personnel Management | 1 | 3 40 0 0 0 0 | 18 2 3 3 3 3 |
| 2912 2952 Eight 9204 Ninth 102x 15xx 1524 1832 2956 | h Term Co-Op Employment Business Tech Term Oral Communications Elective Social Science Elective Stress Management Personnel Management Real Estate Appraisal II-Income | 1 | 3 40 0 0 0 0 0 | 18 2 3 3 3 3 3 |
| 2912 2952 Eight 9204 Ninth 102x 15xx 1524 1832 2956 | h Term Co-Op Employment Business Tech Oral Communications Elective Social Science Elective Stress Management Personnel Management | 1 | 3 40 0 0 0 0 | 18 2 3 3 3 3 |

| ■ Tenth Term 9205 Co-Op Employment Business Tech | 1 | 40 | 2 |
|--|---|----|-----|
| | | | 108 |

Oral Comm. Electives: 1020, 1024

Social Science Electives: 1505, 1506, 1512, 1535, 1536

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 compatible with their level of experience and aptitude.

Marketing Management/Industrial Marketing Technologies (MMT/IMT)

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

| | H | ours Per Week | | Credit |
|---|--|---------------------------------------|---|---------------------------------------|
| | C | Class | Lab | Hour |
| First T | erm | | | |
| 1001 | English Composition I | 3 | 0 | 3 |
| | Effective Speaking | 3 | 0 | 3 |
| | Business Mathematics I | 3 | 0 | 3 |
| | Intro to Psychology I | 3 | 0 | 3 |
| | Computerized Business Applications | 2 | 3 | 3 |
| | Business Principles | 3 | 0 | 3 |
| 2323 | business i incipies | 17 | 3 | 18 |
| | 20000-10036 | 1/ | 3 | 10 |
| | d Term saos nan over sext si | T leav | Electiv | |
| | Professional Practices | 1 | 0 | 0 |
| 9201 | Co-Op Employment Business Tech | 1_ | 40 | 3 |
| | | 2 | 40 | 3 |
| Third | Term | 8 y C | olon | rios |
| 1002 | English Composition II | 3 | 0 | 3 |
| | Financial Analysis | 3 | 0 | 3 |
| | Microeconomics | 3 | 0 | 3 |
| 100000000000000000000000000000000000000 | Risk and Insurance | 3 | 0 | 3 |
| | Electronic Spreadsheets | 2 | 1 | 3 |
| | Principles of Management | 3 | 0 | 3 |
| 2320 | Thirdples of Management | 17 | 1 | 18 |
| ě | ed Business Applications 2 3 | \$1190.0 | Comp | 00 |
| | | | | |
| Fourt | The state of the s | n'i ees online | 40 | |
| | h Term Co-Op Employment Business Tech | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 40 | 3 |
| 9202 Fifth 1 | Co-Op Employment Business Tech | 1 | Office | 3021 |
| 9202 Fifth 1 | Co-Op Employment Business Tech | 1 | 0 | 3 |
| 9202 Fifth 1 1011 1024 | Co-Op Employment Business Tech | 3 | 0 0 | 3 3 |
| 9202 Fifth 1 1011 1024 1123 | Co-Op Employment Business Tech Ferm Business Communications | 3 | 0 0 0 | 3 3 3 |
| 9202 Fifth 1 1011 1024 1123 1823 | Co-Op Employment Business Tech Ferm Business Communications Group Dynamics & Problem Solving Computerized Financial Analysis Business Law I | 3 3 | 0 0 0 0 | 3 3 3 |
| 9202 Fifth 1 1011 1024 1123 1823 | Co-Op Employment Business Tech Ferm Business Communications | 3 3 | 0 0 0 0 0 | 3 3 3 3 |
| 9202 Fifth 1 1011 1024 1123 1823 2901 | Co-Op Employment Business Tech Ferm Business Communications Group Dynamics & Problem Solving Computerized Financial Analysis Business Law I | 3 3 3 | 0 0 0 0 | 3 3 3 |
| 9202 Fifth 1 1011 1024 1123 1823 2901 2911 | Co-Op Employment Business Tech Ferm Business Communications Group Dynamics & Problem Solving Computerized Financial Analysis Business Law I Principles of Marketing I | 3 3 3 3 3 | 0 0 0 0 0 | 3 3 3 3 |
| 9202 Fifth 1 1011 1024 1123 1823 2901 2911 | Co-Op Employment Business Tech Business Communications Group Dynamics & Problem Solving Computerized Financial Analysis Business Law I Principles of Marketing I Principles of Accounting I | 3 3 3 3 3 | 0 0 0 0 0 | 3 3 3 3 3 3 |
| 9202 Fifth 1 1011 1024 1123 1823 2901 2911 | Co-Op Employment Business Tech Business Communications Group Dynamics & Problem Solving Computerized Financial Analysis Business Law I Principles of Marketing I Principles of Accounting I Business Management Seminar | 3 3 3 3 2 | 0 0 0 0 0 0 2 3 | 3 3 3 3 3 3 |
| 9202 Fifth 1 1011 1024 1123 1823 2901 2911 2975 | Co-Op Employment Business Tech Business Communications Group Dynamics & Problem Solving Computerized Financial Analysis Business Law I Principles of Marketing I Principles of Accounting I Business Management Seminar | 3 3 3 3 2 20 | 0 0 0 0 0 0 2 3 | 3 3 3 3 3 3 |
| 9202 Fifth 1 1011 1024 1123 1823 2901 2911 2975 Sixth 9203 | Co-Op Employment Business Tech Business Communications Group Dynamics & Problem Solving Computerized Financial Analysis Business Law I Principles of Marketing I Principles of Accounting I Business Management Seminar | 3 3 3 3 2 20 | 0 0 0 0 0 2 3 | 3 3 3 3 3 3 3 21 |
| 9202 Fifth 1 1011 1024 1123 1823 2901 2911 2975 Sixth 9203 | Co-Op Employment Business Tech Business Communications Group Dynamics & Problem Solving Computerized Financial Analysis Business Law I Principles of Marketing I Principles of Accounting I Business Management Seminar Term Co-Op Employment Business Tech | 3 3 3 3 2 20 | 0 0 0 0 0 2 3 | 3 3 3 3 3 3 21 |
| 9202 Fifth 1 1011 1024 1123 1823 2901 2911 2975 Sixth 9203 Seven 1513 | Co-Op Employment Business Tech Business Communications Group Dynamics & Problem Solving Computerized Financial Analysis Business Law I Principles of Marketing I Principles of Accounting I Business Management Seminar Term Co-Op Employment Business Tech Macroeconomics | 3 3 3 3 2 2 20 | 0 0 0 0 0 0 2 3 5 | 3 3 3 3 3 3 21 |
| 9202 Fifth 1 1011 1024 1123 1823 2901 2911 2975 Sixth 9203 Seven 1513 1810 | Co-Op Employment Business Tech Business Communications Group Dynamics & Problem Solving Computerized Financial Analysis Business Law I Principles of Marketing I Principles of Accounting I Business Management Seminar Term Co-Op Employment Business Tech | 3 3 3 3 2 20 | 0 0 0 0 0 0 2 3 5 | 3 3 3 3 3 3 21 |

| 2905 | Money and Banking | 3 | 0 | 3 |
|--------|--------------------------------|-------|--------|------|
| | Principles of Accounting II | | 2 | 3 |
| | | 18 | 2 | 18 |
| Eightl | Term | omā | Co-Qu | 204 |
| 9204 | Co-Op Employment Business Tech | 1 | 40 | 2 |
| Ninth | Term | vitra | Tach F | NWW. |
| 1817 | Industrial Purchasing | 3 | 0 | 3 |
| 1832 | Personnel Management | 3 | 0 | 3 |
| 1845 | Principles of Retailing | 3 | 0 | 3 |
| 2913 | Principles of Accounting III | 3 | 2 | 3 |
| 2923 | Market Concepts & Applications | 3 | 0 | 3 |
| 2960 | Principles of Finance | 3 | 0 | 003 |
| | | 18 | 2 | 18 |
| Tenth | | | must i | Drag |
| 9205 | Co-Op Employment Business Tech | gn13 | 40 | 2 |
| | | | | 10 |

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

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 compatible with their level of experience and aptitude.

Industrial Marketing Technology Curriculum

| | | Hours Pe | | Credi | |
|-------------|---------------------------------------|-------------------|----------------|---------------|--|
| munu. | ilimo (comy) reintrado unidas as | Class | Lab | Hour | |
| First T | erm | | | | |
| 1001 | English Composition I | 3 | 0 | 3 | |
| 1020 | Effective Speaking | | 0 | 3 | |
| 1121 | Business Mathematics I | | 0 | 3 | |
| 1505 | Intro to Psychology I | 3 | 0 | 3 | |
| | Computerized Business Applications | | 3 | 3 | |
| | Business Principles | 3 | 0 | 3 | |
| 6 10 1 | word/information processing operato | 17 | 3 | 18 | |
| Secon | d Termina language on personal common | utoo pr trains | STOOLS | a clas | |
| 9200 | Professional Practices | 1 | 0 | 0 | |
| | Co-Op Employment Business Tech | | 40 | 3 | |
| -(1,3135) % | res are emphasized. | | 40 | 2913) | |
| ■ Third | Term | placem ind. | bace avt be | Adva and a | |
| | English Composition II | 3 | 0 | 3 | |
| | Financial Analysis | | 0 | 3 | |
| | Microeconomics | | 0 | 3 | |
| | Risk and Insurance | | 0 | 3 | |
| | Electronic Spreadsheet | | 2 | 3 | |
| | Principles of Management | 3 | 0 | 3 | |
| 2320 | del mala | 17 | 1 | 18 | |
| | | | 0012 | L HEEL | |
| ■ Fourt | | | | | |
| 9202 | Co-Op Employment Business Tech | Misus 1 | 40 | 3 | |
| Fifth 1 | Term | ess Princ | Busin | 2925 | |
| 1011 | Business Communications | 3 | 0 | 3 | |
| 1171 | Technical Mathematics I | 4 | 0 | 4 | |
| 1823 | Business Law I | 3 | 0 | 3 | |
| | Technical Physics I | | 3 | 3 | |
| 2901 | Principles of Marketing I | 3 | 0 | 3 | |
| | Basic Blueprint Reading & Sketching | 2 | 2 | 3 | |
| | yment Business Tech 1 40 | 17 | 5 | 19 | |
| ■ Sixth | Term | | | | |
| | Co-Op Employment Business Tech | 1 | 40 | 3 | |
| 8203 | O E Logitiza | h Contra | Englis | 1001 | |
| | nth Term | | Busin | 1122 | |
| | Social Science Elective | | 0 | 3 | |
| | Principles of Salesmanship | | 0 | 3 | |
| 1824 | Business Law II | | 0 | 3 | |
| 2222 | Technical Physics II | 2 | 3 | 3 | |
| | Principles of Marketing II | | 0 | 3 | |

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

| | 17 | 5 | 18 |
|---|---------|----------|-------|
| Eighth Term | 1 | 40 | 2 |
| 9204 Co-Op Employment Business Tech | olymele | 40 | 40 |
| Ninth Term | | | |
| xxxx Tech Elective/Coordinator Approval | . 3 | 0 | 3 |
| 1817 Industrial Purchasing | . 3 | 0 | 3 |
| 2223 Technical Psysics III | . 2 | 3 | 3 |
| 2912 Principles of Accounting II | . 3 | 2 | 3 |
| 2923 Market Concepts & Theory | . 3 | 0 | 3 |
| 2960 Principles of Finance | | 0 | 3 |
| | 17 | 5 | 18 |
| Tenth Term | | angl (| dina) |
| 9205 Co-Op Employment Business Tech | . 1 | 40 | 2 |
| | | | 104 |
| Technical electives must be approved by the coord | inator | | |
| competency-based math test will be administered | | entering | Rus |

Office Specialist Technologies (Secretarial)

tude.

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 techniques and procedures are emphasized.

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

Administrative Support Specialist Technology Curriculum

| | Agnagement 3 0 | Hours Pe | r Week | Credit |
|---------|--|----------|--------|--------|
| No. | The state of the s | Class | Lab | Hours |
| First T | erm | | | |
| 1020 | Effective Speaking | . 3 | 0 | 3 |
| 1121 | Business Mathematics I | . 3 | 0 | 3 |
| 1850 | | . 2 | 3 | 3 |
| 2925 | Business Principles | . 3 | 0 | 3 |
| 300x | Typewriting Elective | . 2 | 3 | 3 |
| 3021 | Office Procedures | . 2 | 3 | _ 3 |
| | | 15 | 9 | 18 |
| Secor | nd Term | ples of | Prince | 1002 |
| 9200 | Professional Practices | q=1.8 | 0 | 0 |
| 9201 | Co-Op Employment Business Tech | 1_ | 40 | 3 |
| | | 2 | 40 | 3 |
| ■ Third | Term Business Tech | lom3 o | 0-00 | 8203 |
| 1001 | English Composition I | . 3 | 0 | 3 |
| 1122 | Business Mathematics II | . 3 | 0 | 3 |
| 3002 | Typewriting II | . 2 | 3 | 3 |
| 3022 | WP Office Applications | . 2 | 3 | 013 |
| 3032 | Office Proc/Professional Development | . 2 | 3 | 3 |
| 3061 | Word/Information Processing I | . 1 | 4 | 3 |
| | | 13 | 13 | 18 |

| Fourt | h Term | | | |
|--------|--|----------|--------------|------|
| 9202 | Co-Op Employment Business Tech | 1 | 40 | 3 |
| Fifth | | on else | alta mina | an I |
| | Business Mathematics III | 3 | 0 | 3 |
| 1823 | Business Law I | 3 | 0 | 3 |
| 2926 | Principles of Management | 3 | 0 | 3 |
| 3003 | Typewriting III | 2 | 3 | 3 |
| 3023 | Machine Transcription | 2 2 | 3 | 3 |
| | Essential Business Correspond | 2 | 1 | 3 |
| | Speedwriting I | 2 | 3 | 3 |
| | (EMI/TMM) | 17 | 10 | 21 |
| Sixth | Term have be and value at matter the control | 2 8/2 | | od |
| 9203 | Co-Op Employment Business Tech | 1 | 40 | 3 |
| Sever | th Term | rior | iomoic | 910 |
| XXXX | SEC/MIS Elective | 2 | 3 | 3 |
| 1018 | Tec WR Style & Techniques | 2 | 5 | 4 |
| 1502 | Human Relations | 3 | 00 | 3 |
| 2911 | Principles of Accounting I | 3 | 2 | 3 |
| 3024 | Secretarial Procedures | 3 | 0 | 3 |
| | Shorthand: Speed Development | | 3 | 3 |
| | eting research, market analysis, distril | 15 | 13 | 19 |
| Eight | n Term | SEPT D | ME SISI | 8131 |
| 9204 | Co-Op Employment Business Tech | 1, | 40 | 2 |
| Ninth | | ey (| olon | db |
| XXXX | SEC/MIS Elective | 2 | 3 | 3 |
| 1011 | Business Communications | 3 | 0 | 3 |
| 1512 | Micro Economics | 3 | 0 | 3 |
| 1521 | Introduction to Sociology | 3 | 0 | 3 |
| | Principles of Accounting II | 3 | 2 | 3 |
| 3090 | Shorthand Transcription | 2 | 8 | 5 |
| | calcing 3 0 attematics 3 0 | 16 | 13 | 20 |
| Tenth | Term c applications A speciared has | Psychoto | omni omni | 303 |
| 9205 | Co-Op Employment Business Tech | 1 | 40 | _ 2 |
| | | | | 10 |
| newrit | ting Electives: 3001, 3006 | | | |
| | Electives: 1712, 1732, 1860, 1861, 3062 | | | |

SEC/MIS Electives: 1712, 1732, 1860, 1861, 3062

General Office Specialist Technology Curriculum

| | | Hours Pe | r Week | Credit |
|---------|------------------------------------|--------------|--------|--------|
| 8 | 0 6 90 | Class | Lab | Hour |
| First 1 | erm 2 z ends | | | |
| 1001 | English Composition I | 3 | 0 | 3 |
| 1121 | Business Mathematics I | 3 | 0 | 3 |
| 1850 | Computerized Business Applications | 2 | 3 | 3 |
| 2925 | Business Principles | 3 | 0 | 3 |
| 300x | Typewriting Elective | 2 | 3 | 3 |
| 3021 | Office Procedures | 3_ | 2 | 3 |
| | | 15 | 9 | 18 |
| | s & Problem Solving | | | 1024 |
| 9200 | Professional Practices | H.beshloud | 0 | 0 |
| 9201 | Co-Op Employment Business Tech | esst.a.v | 40 | 3 |
| | | ples of Acc | 40 | 3 |
| Third | Term Seminar marinar man | ess Manage | Busin | 2975 |
| 1002 | English Composition II | 3 | 0 | 3 |
| 1122 | Business Mathematics II | | 0 | 3 |
| 3002 | Typewriting II | 2 | 3 | 3 |
| 3022 | WP Office Applications | 2 | 3 | 3 |
| 3032 | Office Proc/Prof Development | 2 | 3 | 3 |
| | Word/Information Processing I | | 4 | 3 |
| | | olmon 13 | 13 | 18 |
| 3 | smanship 3 0 | ples of Sale | Princ | 1810 |
| Fourt | h Term | | | |
| | Co-Op Employment Business Tech | ipies of Mar | 40 | 203 |

| Fifth Term | P CHORAL | | HE WA |
|--|----------|--------|-------|
| 1123 Business Mathematics III | . 3 | 0 | 3 |
| 1823 Business Law I | . 3 | 0 | 3 |
| 2905 Money and Banking | . 3 | 0 | 3 |
| 2926 Principles of Management | . 3 | 0 | 3 |
| 3003 Typewriting III | | 3 | 3 |
| 3023 Machine Transcription | . 2 | 3 | 3 |
| 3035 Essential Business Correspondence | | 1 | 3 |
| | 18 | 7 | 21 |
| Sixth Term | lectural | Archie | FES. |
| 9203 Co-Op Employment Business Tech | . 1 | 40 | 3 |
| Seventh Term | | | |
| 1011 Business Communications | | 0 | 3 |
| 1502 Human Relations | . 3 | 0 | 3 |
| 1832 Personnel Management | | 0 | 3 |
| 2911 Principles of Accounting I | | 2 | 3 |
| 3004 Typewriting IV | . 2 | 3 | 3 |
| 3024 Secretarial Procedures | 3_ | 0 | 3 |
| | 17 | 5 | 35.18 |
| | nA lan | | 524 |
| 9204 Co-Op Employment Business Tech | ectural | 40 | 2 |
| Ninth Term | | | |
| 1020 Effective Speaking | | 0 | 3 |
| 1512 Microeconomics | . 3 | 0 | 00 3 |
| 1521 Introduction to Sociology | . 3 | 0 | 3 |
| 1712 Data Entry Systems | | 3 | 3 |
| 2903 Survey of Marketing | . 3 | 0 | |
| 2904 Office Management | | 0 | 3 |
| ded Drafting I (Architect) | 17 | 3 | 18 |
| Tenth Term | ical Sys | Floor | 536 |
| 9205 Co-Op Employment Business Tech | . 1 | 40 | _ 2 |
| | | | 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 compatible with their level of experience and aptitude.

Typewriting Electives: 3001, 3006

Word Processing Specialist Technology Curriculum

| | | lours Per Week | | Credit |
|---------|--------------------------------------|----------------|-----------|---------|
| 2 | Joyment Engineering Tech 40 | Class | Lab | Hours |
| First T | erm | | | |
| 1001 | English Composition I | . 3 | 0 | 3 |
| 1121 | Business Mathematics I | | 0 | 3 |
| 1850 | Computerized Business Applications | . 2 | 3 | 3 |
| 300x | Typewriting Elective | . 2 | 003 | 3 |
| 3021 | Office Procedures | . 3 | 2 | 3 |
| 3060 | Intro to Word/Information Processing | . 2 | 0 | 2 |
| | Word/Information Processing I | | 4 | 3 |
| | | 16 | 12 | 20 |
| Secor | nd Term | | mrsT d | tnoï e |
| 9200 | Professional Practices | 911 9 | 0 | 0 |
| 9201 | Co-Op Employment Business Tech | 4_ | 40 | 3 |
| | | 5 | 40 | 3 |
| Third | Term | ivos. | Juliu is. | pinnise |
| 1002 | English Composition II | . 3 | 0 | 3 |
| 1122 | Business Mathematics | . 3 | 0 | 3 |
| 2925 | Business Principles | . 3 | 0 | 3 |
| 3002 | Typewriting II | . 2 | 3 | 3 |
| 3032 | Office Proc/Prof Development | . 2 | 3 | 3 |
| | Information Records Processing | DET | 4 | 3 |
| | | 14 | 10 | 18 |

| | peech and writing, and to bette mraft h | | | |
|---------|--|--------------------|---------|---------------|
| 9202 | Co-Op Employment Business Tech | self an | 40 | 3 |
| Fifth 1 | Term entering hallons in series of the series | s os be | awards | ai tr |
| 1123 | Business Mathematics III | 3 | 0 | 3 |
| 1512 | Microeconomics | 3 | 0 | - |
| 2926 | Principles of Management | | 0 | 3 |
| 3003 | Typewriting III | 2 | 3 | |
| 3023 | Machine Transcription | . 2 | 6 3 . | - |
| | Essential Business Correspondence | | ne ha | 3 |
| 3063 | Word/Information Processing II | . 1 | 4 | 3 |
| | | 16 | 1111 | 21 |
| Sixth | RESULTAGE SEED OF FISCHARE SO VEHILLESSE | rses b | Y COU | ois |
| 9203 | Co-Op Employment Business Tech | ige1 o | 40 | 14.3 |
| | them during the summer, the mer thr | ni Ilon | ne of | olds |
| 1011 | Business Communications | 3 | 0 | 3 |
| 1502 | Human Relations | 3 | 0 | 3 |
| 2903 | Human Relations | 3 | 0 | 3 |
| 2911 | Principles of Accounting I | 3 | 2 | 3 |
| | Word/Information Process Simulation | | 4 | 3 |
| 3065 | Advanced Word/Information Processing | e gyi | 4 | 3 |
| | | 14 | 10 | 18 |
| Eight | on of the Engineering Technologies Di ate degree programs that combin mrəT d | y miesi associa | oride | 10 0 |
| 9204 | Co-Op Employment Business Tech | y Instru | 40 | 2 |
| Ninth | readuates for immediate emal meT | enares | ion. pi | teou beout |
| 1020 | Effective Speaking | 3 | 0 | 3 |
| 1521 | Introduction to Sociology | | | 3 |
| 1823 | Business Law I | 3 | 0 | 3 |
| 2912 | Principles of Accounting II | 3 | 2 | 3 |
| 3066 | Text Processing | 06010 | 4 | 3 |
| 3067 | Word/Information Processing Admin | 3 | 0 | 3 |
| | will complete this requirement through a | 16 | 6 | 18 |
| Tenth | | ith pric | w sine | buik |
| 9205 | Co-Op Employment Business Tech | 199100 | 40 | 2 |
| | | | | 10 |

Typewriting Electives: 3001, 3006

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 compatible with their level of experience and aptitude.

Engineering Technologies Division

The Engineering Technologies Division is proud of its recognition for instructional excellence and 100 percent graduate placement. In 1984 the Ohio Board of Regents initiated the prestigious Program Excellence Competition among Ohio's publicly supported two-year colleges and four-year universities. Through 1987 only 44 programs out of the nearly 2,000 undergraduate programs offered through the State's colleges and universities have received a Program Excellence Award. Three of the forty-four awards were given to programs in the field of engineering technology. Cincinnati Technical College owns two of the three awards, and is the only college in the state of Ohio who can make such a claim.

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 in each program provides specialized technical instruction in the student's major area of concentration and 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 in society.

Upon successful completion of the two-year program the student is awarded an associate degree in applied science.

In order to ensure a high degree of success in the technology selected, the student must be able to meet established academic levels in mathematics, communication skills and reading comprehension. To aid in determining these levels, all students planning to enter an engineering technology program must take the college admission test.

If the test indicates 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 begin the admissions and testing process as soon as possible. If any preparatory courses are needed, students may be able to enroll in them during the summer, thereby improving their chance to enter the technology in the September or November terms when most of the technologies' course work begins.

Cooperative Education

The primary mission of the Engineering Technologies Division is to provide associate degree programs that combine classroom and laboratory instruction with practical, hands-on experience in a real work environment. This combination, called cooperative education, prepares graduates for immediate employment after graduation and for potential advancement in technical and midmanagement careers.

Because the Engineering Technologies Division believes that cooperative education work experience is of great value, all students are required to earn 10 credit hours in cooperative education. Most students will complete this requirement through on-site cooperative education assignments.

Students with prior related work experience may be permitted to fulfill the cooperative education requirement by applying for one of these alternatives:

- * Submit a petition to receive credit for past related work experience. The petition will be reviewed to determine its validity. Students may earn up to 10 credits through this process.
- Arrange and receive permission to complete appropriate courses as a substitute for cooperative education employment.

The Engineering Technologies Division's Office of Cooperative Education will assist students in fulfilling the cooperative education requirements.

Refer to the "Cooperative Education Program" section of the catalog for additional requirements.

Architectural Mechanical Systems Engineering Technology (AMET)

As an Architectural Mechanical Systems Design Technician, you will be work closely with Architects and Engineers as a designer of building systems. Throughout the curriculum, a heavy emphasis is placed on Computer Aided Drafting (CAD) and Computer Assisted Design.

This exciting two year Associate Degree program teaches the design of all mechanical systems that are required in association with architectural building design. This includes the design of heating, venting, and air conditioning (HVAC) systems, electrical distribution and lighting systems, plumbing and piping systems, as well as the electrical and mechanical control of these systems.

In addition to our strong academic component, we also offer an established Cooperative Education program. As a co-op student you will gain one full year of on-the-job experience in the field of Architectural Mechanical Systems Design.

To accommodate access to this program by individuals already working during the day, students can earn their Associate Degree in approximately three years, attending class only two nights per week.

Architectural Mechanical Systems Engineering Technology Curriculum

| | | Class | er Week Lab | Cre |
|---|--|---|--|--|
| First 1 | erm | gillon. | Macht. | 550 |
| 1001 | English Composition I | 3 | 0 | 3 |
| | Algebra & Trigonometry I | 4 | 0 | 4 |
| | Human Relations | 3 | 0 | 3 |
| | Physics I | 3 | 2 | 4 |
| | Architectural Drafting I | 2 | 4 | 4 |
| | Introduction to Construction | 2 | 2 | 2 |
| 7911 | introduction to construction | 17 | 8 | 20 |
| 2 | 2 2 2 | 181 0.0 825 | so i sisp sosson | TTU |
| | nd Term Co-Op Employment Engineering Tech | 1 | 40 | 20 2 |
| -1 - 1 | naragement. | o asic | DREET | 700 |
| Third | Algebra & Trigonometry II | 4 | 0 | 400 |
| | Physics II | 3 | 2 | 4 |
| | | 100 | 3 | 3 |
| | Architectural Drafting II | 2 | | |
| | Computer Applications | 3 | 2 | 3 |
| | Structural Analysis | 3 | 2 | 3 |
| 7525 | Architectural Mechanical Systems I | - | 2 | 3 |
| | | 18 | 11 | 20 |
| | h Term goldes | ds av | Effect | 020 |
| 9400 | Co-Op Employment Engineering Tech | 10000 | 40 | 2 |
| Fifth | The second secon | y tine | Listal | 712 |
| 1193 | Analytical Geometry & Calculus I | 4 | 0 | 4 |
| 1512 | Microeconomics | 3 | 0 | 3 |
| 7027 | Computer Aided Drafting I (Architect) | 2 | 3 | 3 |
| | Architectural Mechanical Systems II | 4 | 2 | 4 |
| | Electrical Systems I | 3 | 2 | 3 |
| | Piping Systems I | 3 | 2 | 3 |
| /33/ | riping systems i | 2000 | | _ |
| 301 | | 19 | 9 | 20 |
| Sixth | | ecad- | yongle | gmg |
| 9400 | Co-Op Employment Engineering Tech | dents | 40 | onn |
| | th Term | ctive | iting Ele | TWO |
| | Technical Writing I | 3 | 0 | 3 |
| | Physics III | 3 | 2 | 4 |
| 7028 | Computer Aided Drafting II(Architect) | 2 | 3 | 3 |
| 7545 | Architectural Mechanical Systems III | 4 | 2 | 4 |
| 7546 | Electrical Systems II | 3 | 2 | 3 |
| | Piping Systems II | 3 | 2 | 3 |
| | | - | _ | |
| | - Iping eyecone ii VVI | 18 | 11 | 2 |
| 7547 | n Term | | | 2 |
| 7547 | | 18 | | |
| Fight 9400 | Term Co-Op Employment Engineering Tech | 18 | 11 40 | |
| 7547 Eight 9400 Ninth 1015 | Term Term Term Term Term Technical Writing II | 18 | 11 40 | 20001 |
| 7547 Eight 9400 Ninth 1015 | Term Term Term Term Term Technical Writing II | 18 | 11 40 | 2001 |
| 7547 Eight 9400 Ninth 1015 1024 | Term Term Term Technical Writing II | 18 | 11 40 | 2 1001 1513 1513 |
| 7547 Eight 9400 Ninth 1015 1024 1535 | Term Term Term Technical Writing II | 18 | 11 40 0 0 0 | 2 10001 1513 10283 2003 |
| 7547 Eight 9400 Ninth 1015 1024 1535 7555 | Term Co-Op Employment Engineering Tech | 18 1 3 3 3 4 | 0 0 0 0 2 | 2001100110011001010010010010010010010010 |
| 7547 Eight 9400 Ninth 1015 1024 1535 7555 7556 | Term Co-Op Employment Engineering Tech | 18 1 3 3 4 4 | 11 40 0 0 0 | 2001 |
| 7547 Eight 9400 Ninth 1015 1024 1535 7555 7556 | Term Co-Op Employment Engineering Tech | 18 1 3 3 4 4 | 11 40 0 0 0 0 2 2 | 2 |
| 7547 Eight 9400 Ninth 1015 1024 1535 7555 7556 7557 | Term Co-Op Employment Engineering Tech | 18 1 3 3 4 4 2 | 11 40 0 0 0 0 2 2 2 3 | 2001333333333433444333333333333333333333 |
| 7547 Eight 9400 Ninth 1015 1024 1535 7556 7557 | Term Co-Op Employment Engineering Tech | 18 1 3 3 3 4 4 2 19 | 11 40 0 0 0 0 2 2 2 3 | 2001333333333433444333333333333333333333 |

Technical Electives: See AMET program chairman for the official list of technical electives.

Aviation Technology

Because of Federal Aviation Agency (FAA) regulations, students enrolled in Aviation Technology must complete six academic terms, with a cumulative grade point average of 2.00 or better, to be eligible for placement in cooperative education assignments.

Aviation Technology (AV)

Aviation Technology is geared toward 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

| | 4 42 | Hours Pe | | Cred |
|---|--|----------------------------------|--|------------------------|
| F1 | | Class | Lab | Hour |
| First 1 | | | recons. | danile |
| 1191 | Algebra & Trigonometry I | . 4 | 0 | 4 |
| 2221 | Technical Physics I | . 2 | 3 | 3 |
| 8100 | Aircraft Orientation | . 4 | 4 | 5 |
| 8101 | Machine & Hand Tools | oon poo | 4 | 3 |
| 8102 | Basic Aerodynamics & FAA Regulations | . 3 | 2 | 3 |
| - | La construction of the con | THE PERSON NAMED IN | STRUTT | |
| ai | ♠ - ∂r | 14 | 13 | 18 |
| | nd Term | | and the same of th | disease |
| 1192 | Algebra & Trigonometry II | . 4 | 0 | 4 |
| 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 |
| | Cleaning & Corrosion Control | | 3 | 3 |
| 0109 | Clearling & Corrosion Control | | | |
| | | 18 | 15 | 20 |
| Third | Term (F23) 1300000000000000000000000000000000000 | 1990 | right. | MAI |
| 1001 | English Composition I | . 3 | 0 | 3 |
| | Technical Physics III | | 3 | 3 |
| | Airframe Structures I | | 7 | 5 |
| 2121 | Wolding Processes | . 3 | | |
| 0131 | Welding Processes | . 1 | 4 | 2 |
| 8132 | Aircraft Electric/Generating Systems | 5_ | _ 5_ | 5 |
| | | 14 | 19 | 18 |
| Fourt | h Term | | | |
| | English Composition II | 3 | 0 | 2 |
| 0140 | Airfrage Chrystynes II | . 3 | 7 | 5 |
| 0140 | Airframe Structures II | . 3 | / | |
| 8141 | Airframe Fuel Systems | . 1 | 4 | 2 5 |
| 8142 | Assembly & Rigging | . 3 | 7 | |
| 8143 | Airframe Hydraulics & Pneumatic System | . 1 | 4 | 2 |
| | | 11 | 22 | 17 |
| Fifth 1 | wolling construction projects, prepair | 25, CON | BITUE YOU | Spire |
| | Technical Writing I | . 3 | 0 | 2 |
| | | | 0 | 3 |
| | Macroeconomics | . 3 | 0 | 3 |
| | Instr, Comm, Nav, Util Systems | | 5 | 5 |
| 8151 | Airframe Sy, Hyd & Pneu Landing Gear | . 3 | 7 | 5 |
| 8152 | Flightline Maintenance | .01 | 4 | 2 |
| | eying and subdivision planning. | | 16 | 18 |
| | Found | | | |
| SivaL . | leriii | | 0 | - 2 |
| | | 2 | | 3 |
| 15xx | Social Science Elective | . 3 | 0 | |
| 15xx 7035 | Social Science Elective | . 3 | 2 | 3 |
| 15xx 7035 | Social Science Elective | . 3 | | |
| 15xx 7035 8160 | Social Science Elective | . 3 | 2 | 3 |
| 15xx 7035 8160 8161 | Social Science Elective | . 3 | 2 5 | 3 5 |
| 15xx 7035 8160 8161 | Social Science Elective | . 3 . 5 . 4 . 4 | 2 5 3 | 3 5 4 |
| 7035 8160 8161 8162 | Social Science Elective | . 3 . 5 . 4 . 4 | 2 5 3 4 | 3 5 4 4 |
| 15xx 7035 8160 8161 8162 Seven | Social Science Elective | . 3 . 5 . 4 . 4 . 19 | 2 5 3 4 14 | 3 5 4 4 |
| 15xx 7035 8160 8161 8162 Seven 9400 | Social Science Elective | . 3 . 5 . 4 | 2 5 3 4 | 3 5 4 4 |
| 15xx 7035 8160 8161 8162 Seven 9400 | Social Science Elective | . 3 . 5 . 4 . 4 . 19 | 2 5 3 4 14 | 3 5 4 4 19 |
| 15xx 7035 8160 8161 8162 Seven 9400 Eighth 102x | Social Science Elective | . 3 . 5 . 4 . 4 . 19 | 2 5 3 4 14 | 3 5 4 4 |

| 8171 | Powerplant Fuel Metering System | 5 | 5 | 2058 |
|---------|--|--------|---------|------|
| 8172 | Ignition Systems | 5 | 5 | 5 |
| | Processes | 18 | 15 | 18 |
| ■ Ninth | Term Control |) 8 gr | Cleanin | 6018 |
| 1502 | Human Relations | 3 | 0 | 3 |
| 8180 | Engine Systems | 5 | 5 | 5 |
| 8182 | Engine Instruments/Fire Protection | 1 | 4 | 3 |
| 8183 | Powerplant Theory & Maintenance III | 5 | 5 | 5 |
| | | 14 | 14 | 16 |
| ■ Tenth | THE RESERVE OF THE PARTY OF THE | nisol | Engine | 8182 |
| 9400 | Co-Op Employment Engineering Tech | 1ale | 40 | 2 |
| | | | | 148 |

Aviation Maintenance Certificate Programs

Included in the Aviation Maintenance degree program are two certificate programs (Air Agency Certificate No. 105-5). After 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

| The state of the s | Hours Pe | ours Per Week | |
|--|----------|---------------|---------|
| ry and maintenance programs. | Class | Lab | Hours |
| 1001 English Composition I | . 3 | 0 | 3 |
| 1001 English Composition I | . 3 | 0 | 3 |
| 1191 Algebra & Trigonometry I | . 4 | 0 | 4 |
| 1192 Algebra & Trigonometry II | . 4 | 0 | 4 |
| 2221 Technical Physics I | . 2 | 3 | 3 |
| 2222 Technical Physics II | . 3 10 | 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 | . 3 | 2 | 3 |
| 8106 Engineering Graphics (AV) | . 2 | 2 | 2 |
| 8107 Materials & Processes | . 5 | 5 | 5 |
| 8108 Aircraft Electricity | | 2 | 3 |
| 8109 Cleaning & Corrosion Control | . 2 | .3 | 3 |
| 8130 Airframe Structures I | . 3 | 7 | 5 |
| 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 | 2 |
| 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 | . 3 | 7 | 5 |
| 8152 Flightline Maintenance | . 1 | 4 | 2 |
| 8155 Airframe Comprehensive | | 1 | 2 |
| | 69 | 85 | 87 |
| | | | 87 |
| | | | windyg- |

Powerplant Certification Curriculum

| | Hours Pe | r Week | Credit |
|-------------------------------|----------|--------|--------|
| s1 | Class | Lab | Hours |
| 1001 English Composition I | 3 | 0 | 3 |
| 1010 Technical Writing I | . 3 | 0 | 3 |
| 1191 Algebra & Trigonometry I | . 4 | 0 | 4 |
| 1192 Algebra & Trigonometry I | | 0 | 4 |
| 2221 Technical Physics I | | 3 | 3 |
| 2222 Technical Physics II | . 3 | 2 | 3 |
| 2223 Technical Physics III | . 2 | 3 | 3 |
| 8100 Aircraft Orientation | | 4 | 5 |
| 8101 Machine & Hand Tools | . 1 | 4 | 3 |

| 8102 | Basic Aerodynamics & FAA Regulation | 13 | 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 | |
| 8160 | Powerplant Theory and Maintenance I | 5 | 5 | 5 | |
| 8161 | Powerplant Lubrication | 4 | 3 | 4 | |
| 8162 | Propellers | 4 | 4 | 4 | |
| 8170 | Powerplant Theory and Maintenance II | 5 | 5 | 5 | |
| 8171 | Powerplant Fuel Metering System | 5 | 5 | 5 | |
| 8172 | Ignition Systems | 5 | 5 | 5 | |
| 8180 | Engine Systems | 5 | 5 | 5 | |
| 8182 | Engine Instruments & Fire Protection | 1 | 4 | 3 | |
| | Powerplant Theory & Maintenance III | 3 | 2 | 3 | |
| 8185 | Powerplant Comprehensive | 2 | 1 | 2 | |
| | | 80 | 69 | 88 | |
| | | 00 | 33 | -00 | |
| | | | | 88 | |

Biomedical Electronics Technology (BMET) (A TAC/ABET accredited program)

The Biomedical Electronics Technology Program was created because of a need for technicians who 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 whose broad background in electronics and instrumentation will make the graduate an asset to any organization.

Students pursuing a degree in Biomedical Electronics Engineering Technology must hold on-site, related cooperative education assignments for a minimum of three terms.

Biomedical Electronics Technology Curriculum

| | | Hours Per Week | | Credit |
|---------|-------------------------------------|-----------------------|--------|--------|
| 15 | \$ | Class | Lab | Hou |
| First 7 | [erm | | | |
| 1001 | English Composition I | 3 | | 3 |
| 1191 | Algebra & Trigonometry I | 4 | 0 | 4 |
| 2231 | Fundamentals of Inorganic Chemistry | 3 | | 4 |
| 7710 | DC Circuit Analysis | 6 | 0 | 5 |
| 7711 | DC Circuits Lab | 0 | 3 | 1 |
| 7728 | Intro to Digital Concepts | 3 | 2 | 3 |
| | | 19 | 7 | 20 |
| Seco | nd Term | OMOJ GE | MERCA | OCH |
| 9400 | Co-Op Employment Engineering Tech | 1 | 40 | 2 |
| Third | | | | |
| 1192 | Algebra and Trigonometry II | 4 | 0 | 4 |
| 4014 | Anatomy and Physiology I | 3 | 2 | 4 |
| 7717 | Intro to C Programming | 3 | 2 | 3 |
| 7720 | AC Circuit Analysis | 6 | 0 | 5 |
| 7721 | AC Circuits Lab | 0 | 3 | 1 |
| 7738 | Digital Systems I | 3_ | _3_ | 4 |
| | | 19 | 10 | 21 |
| Fourt | h Term | ea & Trigo | deglA | 191 |
| 9400 | Co-Op Employment Engineering Tech | og ill lingo | 40 | 2 |
| Fifth 1 | | cal Physi | Techni | 222 |
| | Analytic Geometry and Calculus I | | 0 | 4 |
| 2293 | Physics III | 3 | 2 | 4 |
| | | | | |

| | Anatomy and Physiology II | | 2 | 4 |
|-------|---|-----------------|-------------------|--------|
| 7730 | Electronics I | . 5 | 2 | 5 |
| 7748 | Digital Systems II | . 3 | 3 | 4 |
| | | 18 | 9 | 21 |
| Sixth | | spent | time is | en e |
| 9400 | Co-Op Employment Engineering Tech | o Iloi | 40 | 2 |
| | nth Term | Jeginie ka A | AT HELM | hor |
| 1010 | Technical Writing I | . 3 | 0 | 3 |
| 15xx | Cociai ocioneo Electivo I I I I I I I I I I I I I I I I I I I | . 3 | 0 | 3 |
| 1502 | Human Relations | | 0 | 3 |
| | Electronics II | | 2 | 5 |
| 7768 | Digital Systems III | 3_ | _ 3 | _4 |
| | | 17 | 5 | 18 |
| | n Term | 900 (6 | Bolos | 1110 |
| | Biomedical Instrumentation I | | 2 | 3 |
| 9404 | Co-Op Employment Engineering Tech | 1_ | 40 | _ 2 |
| | | 4 | 42 | 5 |
| Ninth | Term | NAT & | eries A lander | 181 |
| 1015 | Technical Writing II | . 3 | 0 | 3 |
| 102x | Oral Communication Elective | . 3 | 0 | 3 |
| 1513 | Macroeconomics | . 3 | 0 | 3 |
| 7750 | | . 4 | 2 | 4 |
| 7759 | Biomedical Instrumentation II | 3_ | 2 | 3 |
| | | 16 | 4 | 16 |
| | | | STATE IN | 988.35 |
| Tenth | | | | |
| | Term Co-Op Employment Engineering Tech | . 1 | 40 | 2 |

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

A surveyor is a multi-talented individual possessing skills in mathematics, graphics, law, history, astronomy, computer science and urban planning. Professional surveyors are called upon to perform diverse tasks such as 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, document research and resolution, route design, control surveying and subdivision planning.

Construction Management Major

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

Later in the curriculum the principles of construction management are investigated. Topics include heavy construction, project controls, scheduling, contracting and estimating. Civil Engineering Technology fundamentals are conveyed in strength of materials, statics, reinforced concrete and structural steel design.

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 Pe Class | r Week Lab | Cred |
|---|--|---|----------------------------|--------------------------------------|
| First 1 | erm | | | |
| 1001 | English Composition I | 3 | 0 | 3 |
| 1191 | Algebra & Trigonometry I | | 0 | 4 |
| 2291 | Physics I | 3 | 2 | 4 |
| | Architectural Drafting I | 2 | 4 | 4 |
| | Surveying Measurements | | | 3 |
| | Introduction to Construction | | 2 2 | 2 |
| /911 | introduction to construction | | | 1336 |
| | | 17 | 10 | 20 |
| | d Term | instion the elec | | nstr. |
| 9400 | Co-Op Employment Engineering Tech | d for gr | 40 | rigi |
| Third | Term Algebra and Trigonometry II | uter) el | qmoo) | 4 |
| 2202 | Physics II | 4 | 0 | |
| 7025 | Physics II | 3 | 2 | 4 |
| 7025 | Computer Applications | 2 | 3 2 | 3 |
| 7035 | Computer Applications | 3 | | 3 |
| 7920 | Surveying Calculations | 1 11 11 11 11 11 11 | 2 | _4 |
| | | 16 | 9 | 18 |
| | h Term | r istro I nejolo | ol 'los | qqi i. |
| 1010 | Technical Writing I | 3 | 0 | 3 |
| 9400 | Co-Op Employment Engineering Tech | 1 | 40 | 2 |
| | | 4 | 40 | |
| | unitagnium I Irain | neckasi | 40 | 5 |
| Fifth 1 | ferm | ey Ca | olon | da |
| 1193 | Analytic Geometry & Calculus I | 4 | 0 | 4 |
| 1502 | Human Kelations | 3 | 0 | 3 |
| 7027 | CAD I - Architectural | 2 | 3 | 3 |
| | Route Surveying | | 2 | 3 |
| | Light Construction | 3 | 2 | 3 |
| 7934 | Statics | 3 | 2 | 3 |
| | | 18 | 9 | 19 |
| Sixth | Town 15 major Classic | o Engine | Physic | 1251 |
| | Co-Op Employment Engineering Tech | | 40 | 2 |
| 3100 | distant | ical Circu | Electr | 713 |
| The second second | th Term Social Science Elective | 2 | 0 | 2 |
| | | | 0 | 3 4 |
| 7040 | Physics III | | 2 | |
| 7940 | Elements of Land Surveying | 3 | | 3 |
| | Municipal Wastewater Treatment Sys | | 2 | 3 |
| 7947 | Drainage Control Systems | 3 | 2 | 3 |
| 7948 | Subdivision Design | 3_ | 2 | 3 |
| | onometry II 4 0 nouter Programming 3 2 | 18 | 10 | 19 |
| | | 111111111111111111111111111111111111111 | CLASSIC . | E Property |
| Eightl | Term | | | |
| 102x | Oral Communication Elective | 3 | 0 | 3 |
| 102x | Oral Communication Elective Co-Op Employment Engineering Tech | 3 1 | 0 40 | 3 2 |
| 102x | Oral Communication Elective | 3 | | |
| 102x 9400 | Oral Communication Elective | 1_4 | 40 40 | 5 |
| 102x 9400 Ninth | Oral Communication Elective | <u>1</u> | 40 40 | 5 |
| 102x 9400 Ninth 1015 | Oral Communication Elective | <u>1</u> 4 | 40 40 | 5 |
| 102x 9400 Ninth 1015 1513 | Oral Communication Elective Co-Op Employment Engineering Tech Term Technical Writing II | 3 | 40 40 0 0 | 2 5 3 3 |
| 9400 Ninth 1015 1513 7950 | Oral Communication Elective | 3 | 40 40 0 0 6 | 3 3 3 |
| Ninth 1015 1513 7950 7955 | Oral Communication Elective Co-Op Employment Engineering Tech Term Technical Writing II | 3 | 0 0 0 6 3 | 2 5 3 3 3 3 |
| 102x 9400 Ninth 1015 1513 7950 7955 7958 | Oral Communication Elective Co-Op Employment Engineering Tech Term Technical Writing II | 3 3 1 2 1 | 0 0 0 6 3 6 | 2 5 3 3 3 3 3 3 |
| 102x 9400 Ninth 1015 1513 7950 7955 7958 | Oral Communication Elective Co-Op Employment Engineering Tech Term Technical Writing II | 3 3 1 2 1 3 | 0 0 6 3 6 2 | 2 5 3 3 3 3 |
| 102x 9400 Ninth 1015 1513 7950 7955 7958 | Oral Communication Elective Co-Op Employment Engineering Tech Term Technical Writing II | 3 3 1 2 1 3 | 0 0 6 3 6 2 | 2 5 3 3 3 3 3 3 |

Civil Engineering Technology Curriculum Construction Management Major

| | k as well. The introduction to compress s will enable the graduate to insta mre | Class | Lab | Ho |
|-------------------|--|------------|----------|--------|
| First T | orm | | | |
| | | | | |
| 1001 | English Composition I | . 3 | 0 0 | eslo |
| 1191 | Algebra & Trigonometry I | . 4 | 0 | aart |
| 2291 | Physics I | . 3 | 2 | |
| 7024 | Architectural Drafting I | . 2 | 4 | AHU |
| 7910 | Surveying Measurements | . 3 | 2 | ner |
| 7911 | Introduction to Construction | . 2 | 2 | |
| 7311 | incering | 17 | 10 | 2 |
| | nd Term Co-Op Employment Engineering Tech | . 1 | 40 | eri. |
| Eben't | Hours For Work | . ' | 40 | |
| Third | Term Algebra and Trigonometry II | . 4 | 0 | Fire |
| | | | | |
| 7025 | Physics II | . 3 | | TO |
| 7025 | Surveying Drafting | . 2 | 3 | 16 |
| /035 | Computer Applications | . 3 | | GI |
| 7920 | Surveying Calculations | | 2 | 114 |
| | | 16 | 9 | 711 |
| 3 | o Digital Concepts 3 2 | ction | Introdu | 828 |
| | h Term Technical Writing I | 2 | 0 | |
| 0400 | Co On Employment Engineering Tech | . 3 | | |
| 3400 | Co-Op Employment Engineering Tech | | 40 | 100 |
| | | 4 | 40 | 00! |
| Fifth 1 | | | Tema | bali |
| 1193 | Analytical Geometry & Calculus I | . 4 | 0 | 507 |
| | Human Relations | . 3 | 0 | 053 |
| 7027 | CAD - Architectural | . 2 | 3 | IX |
| | Route Surveying | | 2 | 753 |
| 7931 | Light Construction | . 3 | | 88 |
| | Statics | | | |
| 7934 | Statics | 3 | 9 | 1 |
| | | | h Term | france |
| Sixth 9400 | Term Co-Op Employment Engineering Tech | | | |
| | Ch. | | | |
| | th Term Social Science Elective | . 3 | 0 | |
| | | | | |
| 2293 | Physics III | . 3 | 2 | 193 |
| | CAD II - Architectural | | 3 | 502 |
| 7942 | Construction Management I | . 3 | | 263 |
| | Construction Estimating | | 2 | 08 |
| /944 | Strength of Materials - CET | . 3 | 2 | MAS |
| | | 17 | 11 | 1 |
| Eighth | Term | 51.11 | Terrett. | pi tru |
| 102x | Oral Communication Elective | . 3 | 0 | ans |
| 9400 | Co-Op Employment Engineering Tech | . 1 | 40 | 2 |
| | | 4 | | toy! |
| Ninth | nication Elective 3 maT | NA/ Jac | Technie | 010 |
| | Technical Writing II | | 0 | 563 |
| | Macroeconomics | | 0 | 742 |
| | | | 2 | TAT |
| 7941 | | | _ | |
| | Construction Management II | | 2 | 883 |
| | Reinforced Concrete Design | | 2 | 3 |
| /956 | Structural Steel Design | 3 | 2 | |
| | | 18 | 8 | 1 |
| | | MICHENES ! | BLEEL L | |
| Tenth | Term | | | |

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 multi-

card 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 Curriculum

| | | Hours Pe | | Credit | |
|----------|---|---|-----------|---------|--|
| | | Class | Lab | Hour | |
| First Te | ingonometry II | | | | |
| 1001 | English Composition I | . 3 | 0 | 3 | |
| | Algebra & Trigonometry I | | 0 | 4 | |
| | DC Circuit Analysis | | 0 | 5 | |
| | | The second of | 3 | 059 | |
| //11 | DC Circuit Lab | | | - | |
| | Introduction to "C" Programming | | 2 | 3 | |
| 7728 | Introduction to Digital Concepts | . 3 | 2 | 3 | |
| | | 19 | 7 | 19 | |
| E | O E Lami | ical With | rechn | 0101 | |
| | d Term | | 0.07 | UGAE | |
| 9400 | Co-Op Employment Engineering Tech | . 1 | 40 | 2 | |
| Third | | | | | |
| 1192 | Algebra and Trigonometry II | . 4 | 0 | 4 | |
| | AC Circuit Analysis | | 0 | 5 | |
| | AC Circuits Lab | | 3 | 55.15 | |
| | | | 2 | 3 | |
| | Advanced "C" and UNIx | | | - | |
| 7738 | Digital Systems I | | 3 | 4 | |
| | 3 2 | 16 | 8 | 17 | |
| Fourt | n Term | | | | |
| 9400 | Co-Op Employment Engineering Tech | . 1 | 40 | 2 | |
| 2291 | Physics I | . 3 | 2 | 4 | |
| | Thysics I | | | | |
| | | 4 | 42 | 6 | |
| Fifth 1 | ferm & | Science | Sectal | ioxe! | |
| | Analytic Geometry & Calculus I | . 4 | 0 | 4 | |
| | Human Relations | . 3 | 0 | 3 | |
| | | | | | |
| | Physics II | | 2 | 4 | |
| | Electronics I | | 2 | 5 | |
| 7748 | Digital Systems II | . 3 | 3 | 4 | |
| | 11 21 | 18 | 7 | 20 | |
| Sixth | Torm | Total Control of the | erroll i | tirdyl: | |
| 9400 | Co-Op Employment Engineering Tech | 1 | 40 | 2 | |
| Seven | nth Term | | | | |
| | Technical Writing I | 3 | 0 | 3 | |
| | Oral Communication Elective | | 0 | 3 | |
| | | | 2 | 4 | |
| 2293 | Physics III | | | | |
| 7742 | Computer Aided Drafting (Electrical) | 2 | 3 | 3 | |
| 7747 | Computer Instrumentation | 2 | 2 | 3 | |
| 7768 | Digital Systems III | 3 | 3 | 4 | |
| | norete Design3 2 | production of the last of the | 10 | 20 | |
| Eightl | h Term | and the | AND REC | D.C.C. | |
| 9400 | Co-Op Employment Engineering Tech | 1 | 40 | 2 | |
| Ninth | Term I ment Engineering Tech I man | Employ | Co-Op | 0040 | |
| | Technical Writing II | 3 | 0 | 3 | |
| 15xx | Social Science Elective | 3 | 0 | 3 | |
| | | 3 | 0 | 3 | |
| | Macroeconomics | | 0 | 3 | |
| 7xxx | Technical Elective | 0 | | | |
| 7767 | Computer Communications | 3 | 2 | 3 | |
| | Real Time Applications | 3 | 3 | 4 | |
| THEAT | s in the areas of computer hardware-sol | THE PLANT | E DIRECTO | 19 | |
| | | 15 | 5 | | |

| ■ Tenth Term | | |
|--|----|-----|
| 9400 Co-Op Employment Engineering Tech 1 | 40 | 2 |
| | | 109 |

Technical Electives: 1194, 1195, 2294, 6710, 7144, 7146, 7157, 7740, 7743, 7750, 7753, 7758

Electro-Mechanical Engineering Technology (EMET)

(A TAC/ABET accredited program)

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

The Electro-Mechanical Engineering Technology program is a unique combination of 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 careers such as Robotics Technician, Field Service Technician, Electro-Mechanical Systems Technician, and similar fields.

Electro-Mechanical Engineering Technology Curriculum

| | | Hours Per | Hours Per Week | |
|---------|--|----------------|-----------------------|------|
| 0 | A Committee of the comm | Class | Lab | Hour |
| First T | erm | | | |
| 1191 | Algebra & Trigonometry I | 4 | 0 | 4 |
| 1502 | Human Relations | 3 | 0 | 3 |
| 2291 | Physics I | 3 | 2 | 4 |
| 7008 | Intro to Engineering Drawing | 2 | 3 | 3 |
| 7712 | Electrical Circuits I | 6 | 0 | 005 |
| 7713 | Electrical Circuits I Lab | 0_ | _3_ | _1 |
| | | 18 | 8 | 20 |
| | nd Term & | Wz | Physic | 2293 |
| 9400 | Co-Op Employment Engineering Tech | op. Fotom | 40 | 2 |
| Third | | ige Contin | Draina | 7947 |
| 1001 | English Composition I | 3 | 0 | 3 |
| | Algebra & Trigonometry II | | 0 | 4 |
| | Technical Computer Programming | | 2 | 3 |
| | Electrical Circuits II | | 0 | 5 |
| | Electrical Circuits II Lab | 0 | 3 | 1 |
| 7728 | Introduction to Digital Concepts | 3_ | | 3 |
| | | 19 | 7 | 19 |
| | h Term | | | |
| 9400 | Co-Op Employment Engineering Tech | 1 nithW/lca | 40 | 2 |
| Fifth | | | | |
| 1193 | Analytic Geometry & Calculus I | 4 | 0 | 4 |
| 2292 | Physics II | | 2 | 4 |
| 7730 | Electronics I | 5 | 2 | 5 |
| 7738 | Digital Systems I | | 3 | 4 |
| | Motors and Controls | | _2 | 3 |
| | | 18 | 9 | 20 |
| Sixth | | rvolam3 | Co-Op | 0025 |
| 7104 | Introduction to Machine Tool Process | 3 | 2 | 3 |
| 9400 | Co-Op Employment Engineering Tech | 1_ | 40 | 2 |
| | | 4 | 42 | 5 |

| Seven | th Term the grading along with the term | | | |
|---------|--|-------|----------|-----|
| 1010 | Technical Writing I | 3 | 0 | 3 |
| 1024 | Group Dynamics and Problem Solving | 3 | 0 | 3 |
| 2293 | Physics III | 3 | 2 | 4 |
| 7135 | Fluid Power Systems | 3 | 2 | 3 |
| 7142 | Mechanisms Analysis and Design | 3 | 2 | 3 |
| 7146 | Electro-Mechanical Controls I | 3 | 3 | 4 |
| | s and speeds obtained from compute | 18 | 9 | 20 |
| Eighth | Term | V Cor | Quality | (8 |
| 9400 | Co-Op Employment Engineering Tech | 1 | 40 | 2 |
| Ninth | diagrams used to assess quality cor mraT | ofen | sg bas | |
| | Technical Writing II | | | 3 |
| 1513 | Macroeconomics | 3 | 0 | 3 |
| 15xx | Social Science Elective | 3 | 0 | 3 |
| 7156 | Electro-Mechanical Design | 1 | 4 | 3 |
| 7157 | EM Controls II/Robotic Systems | 3 | 3 | 4 |
| | D system to develop mere parts asse | 13 | 7 | 16 |
| ■ Tenth | erial, tooling and process pictures mref | mate | bills of | |
| 9405 | Co-Op Employment Engineering Tech | 01116 | 40 | 2 |
| | | | | 108 |
| | | | | |

- Recommended Technical Electives: 7144, 7156, 7167, 7740, 7748 (see program chairman for other electives).
- Courses 7008, 7030, 1502 and 15xx may be taken during the previous or following co-op term.
- Courses 7146 and 7157 are available to students in other programs only on a space-available basis.

Electronics Engineering Technology (EET)

Electronics Engineering Technology includes 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

| | | nexan | 1677 |
|-----------------------------------|--|--|--|
| | | | Cred |
| pircation for Mits | Class | Lab | Hou |
| First Term | | | |
| English Composition I | 3 | 0 | 3 |
| Algebra & Trigonometry I | 4 | 0 | 4 |
| Computer Applications | 3 | 2 | 3 |
| DC Circuit Analysis | 6 | 0 | 5 |
| DC Circuits Lab | 0 | 3 | 1 |
| | | 2 | 3 |
| n s II notices | 19 | 7 | 19 |
| cononetty II | of A co | Algeb | 1197 |
| | is ir I- I Ardij NC Pro | 40 | 2 |
| Term | l bns gil | JooF 1 | 7427 |
| Algebra & Trigonometry II | 4 | 0 | 4 |
| | | 2 | 4 |
| AC Circuit Analysis | 6 | 0 | 5 |
| AC Circuits Lab | 0 | 3 | 1 |
| Digital Systems I | 3 | 3 | 4 |
| | 16 | 8 | 18 |
| U L Lyotti | MCSI VAR | Liechn | 1010 |
| Co-Op Employment Engineering Tech | A ani 1 | 40 | 2 |
| | English Composition I Algebra & Trigonometry I Computer Applications DC Circuit Analysis DC Circuits Lab Intro to Digital Concepts. Individual Concepts In | Class Clas | English Composition I 3 0 Algebra & Trigonometry I 4 0 Computer Applications 3 2 DC Circuit Analysis 6 0 DC Circuits Lab 0 3 Intro to Digital Concepts 3 2 Term Co-Op Employment Engineering Tech 1 40 Term Algebra & Trigonometry II 4 0 Physics I 3 2 AC Circuit Analysis 6 0 AC Circuits Lab 0 3 Digital Systems I 3 3 Intermorphisms 1 3 3 Digital Systems I 3 3 Intermorphisms 1 3 3 Intermorphisms 2 3 Int |

| model and a second | | | |
|---|----------|---------|------|
| Fifth Term | | - | 8 |
| 1193 Analytic Geometry & Calculus I | . 4 | 0 | 101 |
| 1502 Human Relations | . 3 | 0 | |
| 2292 Physics II | . 3 | 2 | OL: |
| 7730 Electronics I | . 5 | 2 | |
| 7748 Digital Systems II | 3_ | 3 | 111 |
| 70 7 18 | 18 | 7 | 2 |
| Sixth Term | - | and has | ero |
| 9400 Co-Op Employment Engineering Tech | gino5 d | 40 | 100 |
| Seventh Term | ordina d | 0-00 | DO. |
| 1010 Technical Writing I | 3 | 0 | |
| 2293 Physics III | 3 | 2 | |
| 7xxx Technical Elective | | 0 | |
| 7740 Electronics II | . 5 | 2 | |
| 7768 Digital Systems III | . 3 | 3 | |
| & Wave Optics 3 3 5 | 14 | 7 | 027 |
| ialysis 6 0 5 | redit Ar | DIA | 027 |
| Eighth Term | | | |
| 102x Oral Communication Elective | | 0 | |
| 9400 Co-Op Employment Engineering Tech | 1_ | 40 | |
| | 4 | 40 | XOC |
| Ninth Term | dqin2 q | 0-00 | JUP |
| 1015 Technical Writing II | | 0 | |
| 15xx Social Science Elective | | 0 | |
| 1513 Macroeconomics | | 0 | |
| 7xxx Technical Elective | | 0 | |
| 7742 Computer Aided Drafting (Electrical) | | 3 | |
| 7750 Electronics III | . 4 | 2 | 28.2 |
| | 15 | 5 | DEQ. |
| <u>C</u> | Politica | 111913 | 18. |
| Tenth Term | | | |
| 9400 Co-Op Employment Engineering Tech | 1 | 40 | |
| | | | 10 |

Technical Electives: 1194, 1195, 2294, 7031, 7033, 7160, 7165, 7743, 7767

Laser Electro-Optics Engineering Technology (LEOT)

CTC's Laser Electro-Optics Technology program is the first of its kind in Ohio and one of the few associate degree programs in laser technology in the country. The objectives of the laser electro-optics technology program are to give the student experience and theoretical training in the following areas:

- the properties of laser light, optical cavities, and laser classification.
- 2. the reflection and refraction of light and wave optics.
- 3. an introduction to Optical Components and Laser Electro-Optic devices.
- light wave fundamental and waveguides, with emphasis on step index fiber, graded index fiber, and attenuation.
- applications of laser in materials processing, holography, and pollution monitoring.
- measurements in laser power and energy, with use of monochromators and spectrophotometers, for example.

Graduates of this program will have a good basic background in fundamentals of lasers and electronic principles. They should be able to understand the workings and applications of different types of lasers. The Laser Electro-Optics Technology graduate should fit well in an organization that uses lasers.

Laser Electro-Optics Serion Spring Sp

Admission Requirements: Two years of algebra, geometry, chemistry

| | | lours Pe | Lab | Cred |
|---------|--|------------|-----------------------------|--------|
| F1 | | Class | Lau | 1100 |
| First 1 | erm | tic Geo | | 1,193 |
| 1191 | Algebra & Trigonometry I | . 4 | 0 | 4 |
| | Physics I | | 2 | 4 |
| | Introduction to Lasers | | 2 | 4 |
| | DC Circuit Analysis | | 0 | 5 |
| 7711 | DC Circuits Lab | 0_ | 3 | 1 |
| | | 16 | 7 | 18 |
| Secor | d Term | | musi | dbe? |
| 1001 | English Composition I | . 3 | 0 | 3 |
| 9400 | Co-Op Employment Engineering Tech | . 1 | 40 | 2 |
| 3 100 | co op impleyment inglinearing real trans | 4 | 40 | 5 |
| 8 | O E | 401 | 40 | 010 |
| Third | Term o evito | deal Ele | u del | ZXXX |
| 1192 | Algebra & Trigonometry II | . 4 | 0 | 4 |
| 2292 | Physics II | . 3 | 2 | 4 |
| | Geometrical & Wave Optics | | 3 | 5 |
| | AC Circuit Analysis | | 0 | 5 |
| 7721 | AC Circuits Lab | . 0 | 3 | 1 |
| | | 16 | 8 | 19 |
| 0 | inication Elective 3 0 | inimo. | CORNE | NO. |
| | h Term | 2 | • | - |
| | English Composition Elective | | 0 | 3 |
| 9400 | Co-Op Employment Engineering Tech | 1_ | 40 | _2 |
| | | 4 | 40 | 5 |
| Fifth ' | [erm | Scien | SLAGE. | ARET |
| | Analytic Geometry & Calculus I | 4 | 0 | 4 |
| | Economics Elective | | 0 | 3 |
| | Optical Components/Devices | | 3 | 5 |
| 7030 | Components/Devices | . 3 | 2 | 3 |
| | Computer Programming - Basic | | | |
| //30 | Electronics I | 5_ | | 5 |
| | | 18 | 7 | 20 |
| Sixth | Term | igna y | 0.00 | ODEC |
| 9400 | Co-Op Employment Engineering Tech | . 1 | 40 | 2 |
| Seve | nth Term | il vesy if | us di Elevi | Single |
| | Elective/Chairman's Approval Required | . 3 | 2 | 3 |
| | Oral Communication Elective | | 0 | 3 |
| | Social Science Elective | | 0 | 3 |
| | Applications of Lasers | - | 3 | 5 |
| | Electronics II | | 2 | 5 |
| //40 | Electronics ii | | | _ |
| | | 17 | 7 2 | 19 |
| Eight | h Term To extinct the objectives of | i vani | r Cinic schno | 1 102 |
| 9400 | Co-Op Employment Engineering Tech | ololint: | 40 | 2 |
| | Term | al trai | AJS105 | HIT DI |
| xxxx | Elective/Chairman's Approval Required | . 3 | 2 | 3 |
| 101x | Technical Writing Elective | . 3 | 0 | 3 |
| 15xx | Social Science Elective | . 3 | 0 | 3 |
| 6750 | Laser/Electronics Optic Measurement | . 3 | 3 | 5 |
| 7750 | Electronics III | . 4 | 2 | 9 4 |
| o zias | idamental and waveguides, with emph | 16 | 7 | 18 |
| | t graded index tiper and attenuation. | di xs | ep ind | 12 |
| 9400 | Term Co-Op Employment Engineering Tech | .01 | 40 | 2 |
| mon | s in laser power and energy with use of | meme | TUEBSI | 110 |
| | Composition Electives: 1002, 1007, 1008, 100 | 09, 1010 | mond | 9 |
| conom | ics Electives: 1512, 1513 | | | 6.74 |
| | Coordinator Approval Required: 1194, 1195, | , 2294 | | |
| | mmunication Electives: 1020, 1024 | | | |
| | cience Electives: 1521, 1523, 1524, 1525, 15 | 27 152 | 1 1525 | 153 |

Manufacturing Engineering Technology (MFGT)

The Manufacturing Engineering Technology (MFGT) program prepares students for the computer revolution currently taking place in manufacturing. Classes use computer software packages

related to areas of organizing, planning, directing and controlling the manufacturing process. This practice, along with the cooperative experience will enable the graduate to perform in the following manufacturing areas:

A) Programming

Numerical Control (N/C) manual programming, computerassisted part programming using language systems such as apt or compact II, and computer assisted CAD/CAM systems. Feeds and speeds obtained from computer data bases.

B) Quality Control

Statistical Process Control (SPC) charts covering attributes and variables. Histograms, frequency distribution curves and pareto diagrams used to assess quality control.

C) Process Planning

Use of a computer to develop a plan to convert raw material to finished product. Includes sequence of operations, standard and estimated times and tooling/fixturing required.

D) CAD/CAM

Use of CAD system to develop piece parts, assemblies, bills of material, tooling and process pictures. Includes rectangular and geometric tolerancing and output of machineready code for downloading to production machinery or graphical simulations.

E) Estimating

Use of "Costimator" software to generate an estimate of product costs which include piece part prices, tooling costs, assembly costs, feeds and speeds and weight of parts.

Areas of non-cutting and handling elements are covered in the package. Ability to tailor the estimate to a unique need

or process.

The coursework necessary to successfully complete the certified manufacturing technologist and the certified quality technician exams is provided within the Manufacturing Engineering Technology curriculum. The coordinator can provide specific details.

Manufacturing Engineering Technology

| | | Hours Pe | lours Per Week | |
|---------|-------------------------------------|------------|----------------|-------|
| | manifest and an incident | Class | Lab | Hours |
| First T | erm | | | |
| 1001 | English Composition I | . 3 | 0 | 3 |
| 1191 | Algebra & Trigonometry I | 4 | 0 | 4 |
| 2291 | Physics I | | 2 | 4 |
| 7008 | Introduction to Engineering Drawing | 2 | 3 | 3 |
| | Computer Application for Mfg | | 2 | 3 |
| 7417 | Manufacturing Processes | 3_ | 2 | 3 |
| | | 18 | 9 | 20 |
| | gononietry I 4 0 | H & and | Alge | rerr |
| Secon | nd Term ^E enoisesign | putter Ap | | |
| 9400 | Co-Op Employment Engineering Tech | A flupvill | 40 | 2 |
| 1 | dbdb | Incuits ! | DCC | 771 |
| ■ Third | Term E Concepts | | | |
| 1002 | English Composition II | 3 | 0 | 3 |
| | Algebra & Trigonometry II | | 0 | 4 |
| | Physics II | | 2 | 4 |
| 7027 | CAD I - Architectural | 2 | 3 | 3 |
| 7144 | NC/CNC Programming I | 2 | 3 | 3 |
| 7427 | Tool, Jig and Fixture | 3 | 2 | 3 |
| | gonometry II | 17 | 10 | 20 |
| | | ics I . | Phys | 229 |
| Fourt | h Term | A figaril | | |
| | Co-Op Employment Engineering Tech | Circuits L | 40 | 2 |
| 3.00 | E E | al Syste | bid t | 7738 |
| Fifth | Term of | | | |
| | Technical Writing I | 3 | 0 | 3 |
| | Introduction to Applied Statistics | | 0 | 4 |
| | Engineering Materials | | 2 | 3 |

| | NC/CNC Programming II | 2 | 3 | 3 |
|--------------------------------------|---|----------------|----------------------------|------------|
| 7428 | CAD II - Manufacturing | 2 | 3 | 3 |
| 7444 | Manufacturing Process Planning | _ 3 | 2 | _ 3 |
| | | 17 | 10 | 19 |
| Sixth | 프랑프 경우 그런 경우는 나는 보여 분들을 되면 보내겠습니다. 그 글을 다른 모든 경우를 되었습니다. 그렇게 그렇게 되었다. | ei en | D yao | ISTO |
| 9400 | Co-Op Employment Engineering Tech | mlin | 40 | 2 |
| Sever | nth Term | poi ev | d chief | ruik as |
| 1535 | Intro to Labor Management Relations | 3 | 0 | 3 |
| 2293 | Physics III | 3 | 2 | 4 |
| 7441 | Statistical Process Control | | 2 | 3 |
| 7449 | Computer Aided Manufacturing I | 3 | 2 | 3 |
| 7450 | Production Cost Estimating | 3 | 0 | 3 |
| 7707 | Electrical Applications | 3 | 2 | 3 |
| | | 18 | 8 | 1 |
| | Term Co-Op Employment Engineering Tech | lamei lamei | 40 | 2 |
| | | | | |
| Ninth | II acutaw | ege Pl | Colle | 24 |
| 102x | Oral Communication Elective | 3 | 0 | - |
| 102x 15xx | Oral Communication Elective | | 0 | 213 |
| 102x 15xx 1512 | Oral Communication Elective Social Science Elective Micro Economics | | 0 0 0 | 213 |
| 102x 15xx 1512 7438 | Oral Communication Elective Social Science Elective Micro Economics Industrial Engineering Concepts | | 0 0 0 2 | 3 |
| 102x 15xx 1512 7438 7454 | Oral Communication Elective Social Science Elective Micro Economics Industrial Engineering Concepts CAD/CAM Project | | 0 0 0 2 3 | 3 3 4 |
| 102x 15xx 1512 7438 7454 | Oral Communication Elective Social Science Elective Micro Economics Industrial Engineering Concepts | | 0 0 0 2 3 2 | 3 3 3 4 |

Mechanical Engineering Technology (MET) (A TAC/ABET accredited program)

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 Mechanical Engineering Technology 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 Pe | lours Per Week | |
|--|----------|------------------|----------------|
| | Class | Lab | Hours |
| ■ First Term | | | |
| 1001 English Composition I | 3 | 0 | 3 |
| 1191 Algebra & Trigonometry I | 4 | 0 | 4 |
| 2291 Physics I | | 2 | 4 |
| 7008 Introduction to Engineering Drawing | | 3 | 3 |
| 7035 Computer Applications | 3 | 2 | 3 |
| 7160 Computer Aided Drafting I | 2 | 3 | 3 |
| | | 10 | 20 |
| Second Term | ng. reo | Home | 10 50 10 50 |
| 9400 Co-Op Employment Engineering Tech | aubli i | 40 | 2 |
| ■ Third Term | en y dei | morio | olem and on |
| 1192 Algebra & Trigonometry II | 4 | 0 | 4 |
| 2292 Physics II | 3 | 2 | 4 |

| 7010 Engineering Drawing I | . 2 | 3 | 3 |
|---|---------------------------|---------|---------------|
| 7124 Manufacturing Process W/CAD-CAM | . 3 | 2 | 3 |
| 7130 Engineering Mechanics | | 2 | 3 |
| 7165 Computer Aided Drafting II-Mechanical | 2 | 3 | _3 |
| | 17 | 12 | 20 |
| Fourth Term | | nent is | nage |
| 9400 Co-Op Employment Engineering Tech | ne t spe oortan | 40 | 2 |
| e assessment is designed to be a mref thile | ed. Th | be fail | Ionn |
| 1193 Analytic Geometry & Calculus I | | 0 0 | 4 |
| 1512 Microeconomics | . 3 | 0 | 3 |
| 7012 Engineering Drawing II | | 2 | 3 |
| 7111 Engineering Materials | | 2 | 3 |
| 7132 Hydraulics and Pneumatics | . 3 | 2 | 3 |
| 7140 Strength of Materials | 4 | _2_ | 4 |
| | 20 | 8 | 20 |
| Sixth Term | o fisteo | SCIUOS | non |
| 9400 Co-Op Employment Engineering Tech | . 1 | 40 | 2 |
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| 1502 Human Relations | | 0 | 3 |
| 2293 Physics III | 003 | 2 | 4 |
| 7141 Kinematics & Dynamics of Machines | 3 VS | | 3 |
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| 7707 Electrical Applications | | 2 | 3 |
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| 1024 Group Dynamics & Problem Solving | . 3 | 0 | 3 |
| 1535 Intro to Labor Management Relations | | 0 | 3 |
| 7148 Applied Thermodynamics | . 3 | 2 | 3 |
| 7155 Machine Design II | . 4 | 2 | 4 |
| 7158 Mechanical Systems Design Project | 3 | 0 | 3 |
| Analysis | 19 | 4 | 19 |
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| 9400 Co-Op Employment Engineering Tech | i aniv | 40 | 2 |
| | | | 109 |

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 in the applied physical sciences leading the student to a career in industrial laboratory technology.

Course recommendations in the physical sciences and mathematics at CTC are determined according to the readiness of each student. Readiness is determined during the admission process through assessment and an interview. Faculty are chosen for their abilities to communicate effectively with students and 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 mathematics placement assessment designed for the specific type of technology of interest to the student. It is important for students to realize that the assessment cannot be failed. The assessment 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 service. The results assist the student in choosing a sequence of math courses suited to his or her technology major and general area of interest.

Students who wish 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 about retraining for individuals and corporations. A program may vary from a single course to a series of programs. Resources are available to assist and advise individuals in solving their problems in these areas.

Mathematics and Physical Sciences Courses

Each sequence of mathematics courses 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: Trigonometry

1153 Elementary Analysis

1154 Calculus I

1155 Calculus II

Courses Serving Health Technology Students:

1105 Health Mathematics

1170 Introduction to Technical Mathematics

1171 Technical Mathematics I

1179 Introduction to Applied Statistics

1180 Applied Statistical Analysis

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

1120 Introduction to Business Mathematics

1121 Business Mathematics

1122 Business Mathematics II

1123 Business Mathematics III

1124 Business Algebra

1125 Computerized Financial Analysis

1126 Computer Mathematics

1127 Business Statistics

1128 Business Calculus

1170 Introduction to Technical Mathematics

Courses Serving Engineering Technology & Physical Sciences Technology Students:

1161 Applied Algebra

1162 Applied Geometry & Trigonometry

1171 Technical Mathematics I manufacture minoral

1172 Technical Mathematics II

1179 Introduction to Applied Statistics is a case ibasis anabute 1180 Applied Statistical Analysis and business as a deposit anabute in the control of the c

1191 Algebra & Trigonometry I also applications of additional

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 science departments therefore place much emphasis on the laboratory. Care is taken to ensure all laboratories are well supplied with equipment. The laboratory experiences point the way for students by helping them to organize an attack on a problem, to use their own ingenuity and thoughts while carrying the investigation to a conclusion and to prepare a report of the findings.

Introductory Courses Serving General Student Interests:

2200 Introduction to Chemistry

2270 Introduction to Physics

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

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

Courses Serving Engineering Technology & Physical **Sciences Technology Students:**

2291 Physics I

2292 Physics II

2293 Physics III

2294 Physics IV

Computer Science Courses:

1130 Introduction to the Microcomputer

1133 BASIC 2 for Science & Engineering Technologies

1134 Macro FORTRAN & Microcomputers solve problems of existing machine a

1135 "C" Programming I

1136 FORTH Programming I amendment of Vilvaged electronic

1137 PASCAL Programming I Magazine 2010 noisivistugmo

1138 Introduction to Computer Graphics & Modeling

1139 Introduction to XENIX/UNIX

6101 Introduction to Artificial Intelligence and mechanical systems design tec

6135 "C" Programming II

6136 FORTH Programming II stoom bedsildstee nA STOM

6137 Pascal Programming II adversize managing loods animal

For the student who relates strongly to the sciences and is excited by expanding technology, the Industrial Laboratory Technology program leads to careers which focus on chemical and physical testing techniques and instrumentation.

Industrial Laboratory Technology

The Industrial Laboratory Technology program is designed to prepare the student for employment in a testing laboratory in which the chemical and physical properties of materials are measured. A graduate of the program will be capable of performing a variety of testing and analytical jobs, from the tensile strength testing of steel to the spectrophotometric analysis of medicinal compounds. As a well-prepared lab technician, the graduate will apply the concepts from chemistry, physics, materials science and statistics to the planning and execution of tests and to the taking, compiling, reporting and analysis of measurement data. Because the Industrial Laboratory Technology curriculum has ample chemistry, math and physics requirements, students who are interested in later earining the bachelor of science degree from a university have found the curriculum serves their needs well.

ASQC Certification

Many students may be interested in earning certification through the American Society for Quality Control (ASQC) as a Certified Quality Technician. The coursework necessary to successfully complete the CQT examination is provided within the Industrial Laboratory Technology curriculum. The advisor can provide specific details.

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

Industrial Laboratory Technology Curriculum

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| 2291 | Physics I | | 2 | |
| | Chemistry I & Quantitative Analysis | . 3 | 3 | |
| 6630 | Chemistry I & Quantitative Analysis | . 3 | _ | 4 |
| 6629 | Industrial Materials Testing I | . 3 | 7 | 1 |
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| 1192 | Algebra & Trigonometry II | . 4 | 0 | 4 |
| 2292 | Physics II | . 3 | 2 | |
| 6619 | Computer Analysis of Lab. Data I | . 2 | 2 | 0113 |
| 6621 | Chemistry II & Quantitative Analysis | . 3 | 3 | 4 |
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| | Social Science Elective | . 3 | 0 | 3 |
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| | Introduction to Applied Statistics | . 4 | 0 | 4 |
| 2293 | Physics III | . 3 | 2 | 4 |
| 6631 | Chemistry III & Quantitative Analysis 3 | 3 | 4 | |
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| 1193 | Analytic Geometry and Calculus I | . 4 | 0 | 4 |
| 6641 | Instrumentation for Chemical Analysis 3 | 3 | 4 | |
| 6649 | Industrial Materials Testing II | | 2 | 4 |
| | Applied Statistics Elective | . 2 | 2 | 3 |
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| 1024 | Group Dynamics & Problem Solving | . 3 | | 3 |
| 15xx | Social Science Elective | . 3 | 0 | 3 |
| 2294 | Physics IV | . 3 | 2 | 4 |
| 6659 | Computer Analysis of Lab. Data. Il | . 3 | 2 | 4 |
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| 9600 | Co-Op Employment PST Technology | . 1 | 40 | _ 2 |

Applied Statistics Elective: 7441, 7455

Elective/Coordinator Approval Required: 1133, 1134, 1135, 1136, 1137, 1138, 1194, 1195, 2233, 4000, 4009, 6661, 6710, 6720, 7030, 7031, 7700, 7704, 7708, 7710, 7711

English Composition Elective: 1007, 1010 Social Science Elective: 1502, 1505, 1506, 1521 Technical Writing Elective: 1010, 1015, 1017, 1018

SQC/SPC Training

Increasing demands in industry to implement statistical process control (SPC) as an essential component in the production and manufacturing process have placed 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. CTC also offers SPC in a customized plant-site modular format for direct company implementation. Contact the Manufacturing Engineering Technologies program or the 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 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, Taguchi's loss function, etc. Statistical control charting (X-bar, R, p, np, c, u, etc.) applied to process stability and capability with emphasis on data collection, measurement concepts, chart preparation and chart interpretation. Acceptance sampling and reliability are covered and a state-of-the-art computer software package is used in hands-on PC sessions. 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 emphasis is on statistical methods to assure that products and processes 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, linear graphs and signal-to-noise ratio as popularized in Japan by Taguchi. Computer software packages will be used in hands-on PC sessions. As in the previous modules, the applied programs come from a 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.

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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 consideration of total individual educational needs and, in cooperation with career consultants from the business/industrial community, provides 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:

Submit written justification for admission to this degree program in preference to one of the other associate degree pro-

grams and options available at the College.

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 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 after the minimum six quarter college credit hours have been accumulated.
- 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.

In addition, the A.I.S. program in Business and Engineering Technologies (AISB/AISE) are academic preparatory programs. Students receive specialized attention in preparing for acceptance into the Associate Degree programs in the Business and Engineering Technology Divisions. Services available to the student include academic advising, personal and career counseling, job orientation and academic support services. Admission to these programs is through technology referral.

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 to serve those needs. These services may be categorized in the following ways:

Change in Scheduling

To serve the large number of students who are employed fulltime, the College has increased evening and Saturday offerings. These classes allow students to pursue different career aspirations while they 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 Industrial Sales Marketing Technology Loss Control

Management Information Systems
Managerial Accounting
Marketing Management

Office Specialist

Real Estate/Property Management

Communication Skills and Social Science Division

Technical Writing and Editing Technology

Engineering Technologies Division

Architectural Mechanical Systems Engineering Technology
Aviation Technology

Biomedical Electronics Technology

Civil Engineering Technology - Construction Management

Civil Engineering Technology - Surveying

Computer Integrated Manufacturing Engineering Technology Electro-Mechanical Engineering Technology

Electronics Engineering Technology

Mechanical Engineering Technology

Health Technologies Division

Dietary Managers Certificate
Electrocardiography Certificate
Health Unit Coordinator Certificate
Medical Records Associate Degree
Phlebotomy Certificate
Geriatic Technology
Medical Assisting Certificate

Physical Sciences/Mathematics Division

Industrial Laboratory Technology

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

Change in Location

Students who are working full-time generally have full daily schedules. Travel time and energy for 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 providing concurrent courses through extension centers located within the College service area. CTC extension centers are located at Anderson High School and Oak Hills High School.

The continuing education operations also include recreational and leisure-time courses.

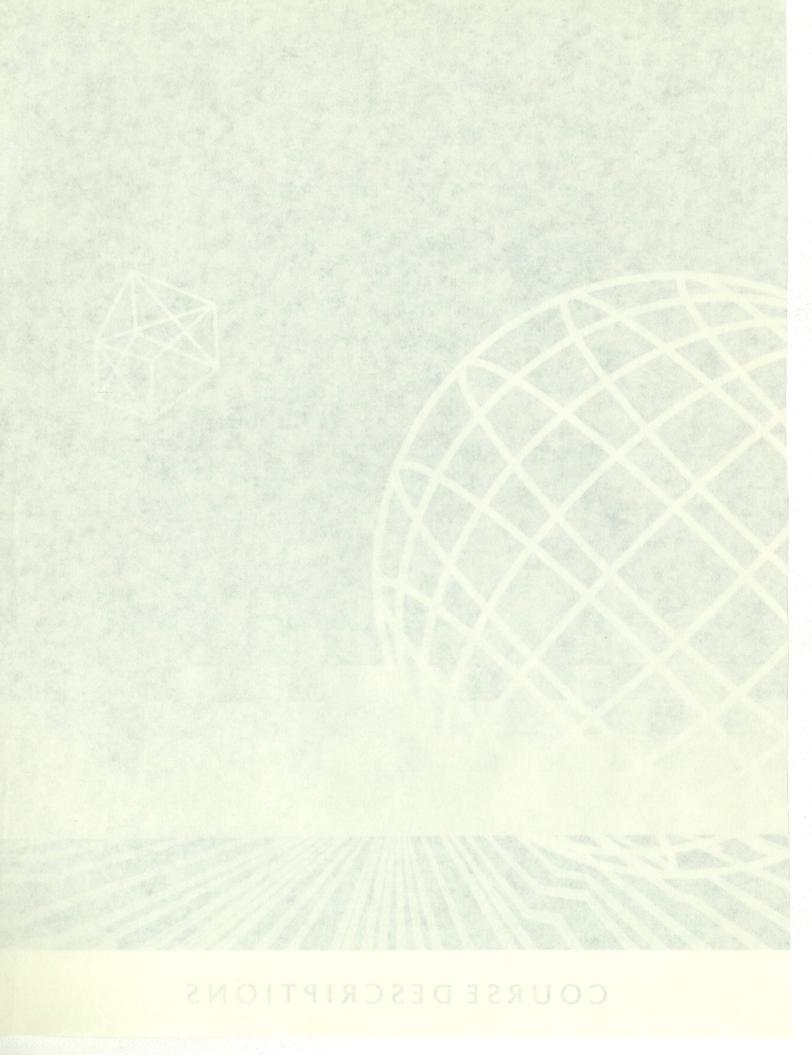
Services For Business and Industry

Cincinnati Technical College can respond to the business, industrial, and professional communities' requests to provide onsite courses to upgrade 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. Charges are negotiated on an individual contractual basis dependent upon instructional services, facilities, number of participants and equipment.

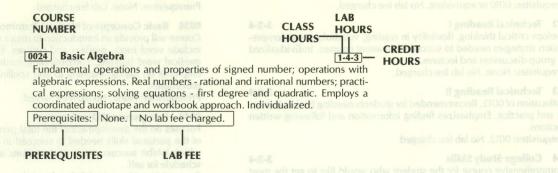
Benefits to the employer are programs tailored to meet company needs which are delivered on-site, programs that offer a blend of audience participation, flexibility to meet busy business schedules, reduction of travel costs, time and inconvenience, and guaranteed follow-up after training.



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 laboratory supplies for a particular course. A listing of current lab fees is available in the division offices.

0130 Basic Security Training

Basic overview of primary security functions that are usually performed by contract guards. Topics covered are: nature and role of private security, note taking and report writing, the criminal justice system, types of security, patrol techniques and procedures, handling emergencies and other subjects as the employer's needs arise. Prerequisites: None.

0131 Basic Security Supervision

This course is an outlined overview of all the functions and responsibilities of a supervisor in the day-to-day operations of an agency. Prerequisites: None.

0133 Speedwriting I

Designed for those students who have had no previous shorthand/ speedwriting training. Emphasis includes rapid reading of plate material, mastery of principles of theory, writing and transcribing. Prerequisite: None. Lab fee charged.

0192 English Conversation-English as a Second Language 0-0-0 Conversation and pronunciation class for students who speak English as their second language. The course is for intermediate to advanced students.

Prerequisites: None.

0250 Civil Rights Seminar

Course will instruct on the History of Segregation, the Role of Government, Role of Private Industry. Fair housing Legislation especially relative to the Civil Rights Act of 1866, the Ohio Civil Rights Law enforcement and Relief Case Law. Included will be a Slide Show and the Practical Application of the Law to Sales Practices and typical Situations.

0261 Graphic Art's 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. Volume and analysis and analysis and analysis 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 advance color film assembly for the graphic art industry. Students will learn skills in 4 color stripping; choke and sphead; screen tints; drop out drop in color type and pin register systems. Prerequisites: None. Lab fee charged.

0305 Photography

0-0-0

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

Prerequisites: None.

0500 Certification Review for Medical Assistants

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 (2) bits religioning licitismentism to we 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, word processing, 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

1-2-2

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

2-2-3

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

4-2-E nuistes: None. No lab fee charged.

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.

Continuation of 0010. Recommended for students needing further improvement in reading skills.

Prerequisites: 0010 or equivalent. No lab fee charged.

0012 Technical Reading I

Develops critical thinking, flexibility in reading, vocabulary and comprehension strategies needed to succeed in content courses. Individualized lab, group discussion and lectures.

Prerequisites: None. 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). Individu-

Prerequisites: None. No lab fee charged.

0017 Speed Reading

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

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

0024 Basic Algebra I-Individualized

Fundamental operation and properties of signed numbers. Operations with algebraic 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

Review and expand concepts from Basic Algebra I; systems of equations, fractional expressions and equations, radicals, quadratic formula, logarithms, inequalities, employs a coordinated audiotape and workbook approach.

Prerequisites: 0024. No lab fee charged.

0027 Pre-Tech Health Math - Independent

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. This course is offered as a self-paced class. Prerequistes: None. 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

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 3-2-3

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. 10 record to record to the self-assured decision in the self-assured person. Prerequisites: None. No lab fee charged.

0042 Interpersonal Skills

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

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 Educational students. This course is recommended for first (1st) term students. Prerequisites: None. No lab fee charged.

0050 Orientation to Business

1-0-1

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

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

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 Critical Thinking & Writing 3-0-3

Principles of logical thinking including distinguishing between fact and opinion, differentiating between fact and opinion, distinguishing bias from reason; recognizing statements that are provable, and other concepts. Applications of the theory will be demonstrated through various writing assignments.

Prerequisites: 1001 or 1002. No lab fee charged.

1008 Composition: Science Fiction

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

1009 Business English

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 in individualized courses.

1011 Business Communications

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

1015 Technical Writing II 3-0-3

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

This course addresses the tasks that technical writers and editors perform as they conduct research. Students will learn to identify, select, and use the most appropriate method that corresponds to the project. Major topics to be explored include interviewing skills, questionnaire design, observation techniques, case studies, and classical experimental design. Literature searches using data bases will also be discussed. Students will prepare primary and secondary research reports, and present an oral report.

Prerequisite: 1007 or Equivalent Preferred. No lab fee charged.

1018 Technical Writing Style & Techniques

In this course students examine and practice the conventions, style, and structures of technical writing. The course focuses on seven skill areas; economy, emphasis, clarity, correctness, concreteness, unity and coherence, and variety. Students are tested in each skill area and then complete individually-assigned exercises to build proficiency. All exercises must be completed in the CTC Writing Center, using the Automated Language Processing System. Other course topics include audience analysis, readability criteria, and the terminology of technical writing style. Conferences with the instructor are required.

Prerequisite: 3 credits of English Composition. Lab fee charged.

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

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.

1025 Group Dynamics within Organizations

Investigation of methods groups can use to operate successfully within any given organizational structure. Problem solving between groups and the organization, decision making, recommendation and implemendation are major areas studied.

Prerequisites: 1024. 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

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

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 2-2-3 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 Assessment

The results of the assessment will enable a faculty advisor to make the proper course recommendation for each student. Following the assessment, students will be advised to take the mathematics course which is most appropriate for their individual skill level. The final decision ultimately lies with each student. There is no additional fee for this service. Prerequisites: None. No lab fee charged.

1105 Health Mathematics

This course is primarly for the health technologist whose work environment implies use of measurement concepts. The prime thrust is problem solving experiences within the health field. This includes: applications of elementary mathematics such as solving simple algebraic equations, ratio & proportion and percent; work with units (metric, apothecary and household systems) including conversions; dosage and concentration calculations. Use of an electronic calculator is required.

Prerequisite: Recommendation of coordinator/advisor. No lab fee charged.

1120 Introduction to Business Mathematics Fundamental mathematical skills as applied in the business professions, with major emphasis given to percents and their applications. Topics include: a review of decimals, bank reconciliaton, operations with percents, markup, markdown, and simple interest. Use of an electronic calculator is required.

Prerequisite: 0020 or skills assessment. No lab fee charged.

1121 Business Mathematics

The first of a sequence of courses designed to cover the many applications of mathematics in the business world. Introductory topics on equations, formulas, ratios and a review of percents. Mathematics of business topics include: graphs, trade and cash discounts, payroll, insurance, and taxes. Use of an electronic calculator is required.

Prerequisites: 1120 or as indicated by skills assessment. No lab fee charged.

1122 Business Mathematics II

A continuation of business mathematics. Topics include: markups, markdowns, depreciation, inventory, financial reports, simple interest, and bank discounts. Use of an electronic calculator is required.

Prerequisites: 1121. No lab fee charged. 1123 Business Mathematics III

3-0-3

A continuation of business mathematics topics with emphasis on financial math. Topics included are: compound interest, multiple payment plans, annuities, amortizations, stocks and bonds, and statistics. Use of an electronic calculator is required. No lab fee charged. Prerequisites: 1122. No lab fee charged. 4 00 at "O" aid T sometimes as

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.

1125 Computerized Financial Analysis

2-2-3

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: 1861, 1123. 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 programs. Boolean Algebra.

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 required.

Prerequisites: 1124 or equivalent. No lab fee charged.

1128 Business Calculus

Algebric 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 the Microcomputer

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

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.

1133 Basic II for Science and Engineering Technologies 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/Microcomputers

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/O 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. It's 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

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

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 The hardware, software, and data structure considerations for utilizing ready made graphics packages; the mathematical and programming techniques for displaying anl 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

XENIx is Microsoft's adaptation of the UNIx operating system for microcomputers. 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

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 Quantative Analysis 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

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: 141 and 1142 or equivalent. No lab fee charged.

1150 Introduction to Science Mathematics

Fundamental skills of mathematics as applied in the health professions. Covered topics include: operations with percent, geometry, metric system, Apothecaries' system, solving simple algebraic equations, ratios & proportions, reading measuring devices & dial scales, interpretation & construction of graphs and introduction to statistics. Use of an electronic calculator is required. This course is offered both as a traditional lecture class and as a self-paced class.

Prerequisites: 0020, 0024 or indicated by skills assessment. No lab fee charged.

1151 Pre-Calculus Math: Algebra

Covered topics include: real numbers, exponents, basic equation solving methods, factoring, quadratic equations, fractional equations, graphing, straight lines, systems of equations, determinants and Cramer's Rule. Prerequisites: High school algebra. No lab fee charged.

1152 Pre-Calculus Math: Trigonometry

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

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

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.

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. Prerequisites: 1152, 1154. No lab fee charged.

1161 Applied Algebra

A course designed to build an awareness of the practical uses of algebra in engineering technology and basic science applications. Covered topics include: manipulation of measured values and variables in formulas; relationship between formulas and real devices; construction & reading of graphs and lab exercises reading numbers from technical drawings & from measuring devices. Use of a scientific calculator is required.

Prerequisites: Recommendation of coordinator/advisor. No lab fee charged.

1162 Applied Geometry & Trigonometry

 A course designed to build an awareness of the practical uses of geometry and trigonometry in engineering technology and basic science applications. Covered topics include: manipulation of the formulas of geometry and trigonometry; use of geometric facts; the relationship between geometry & trigonometry and lab exercises reading numbers from technical drawings & from measuring devices. Use of a scientific calculator is

Prerequisites: 0024 or 1161 or equivalent. Corequisites: 2270 or 7008 or equivalent. No lab fee.

4-0-4

1170 Introduction to Technical Mathematics Covered topics include: percents, geometric figures, measurement & Geometry, metric system, signed numbers, solving algebraic equations, ratios & proportions, reading measuring instruments & dial scales and interpretation & construction of graphs. Applications will use the tools of the sciences and the engineering technologies; graphs, calipers etc. Use of an electronic calculator is required. This course is offered both as a traditional lecture class and as a self-paced class.

Prerequisites: 0020, 0024 or indicated by skills assessment. No lab fee

charged.

1171 Technical Mathematics I

Covered topics include: order of calculation, scientific notation, accuracy, rounding, unit conversion, formula & equation manipulation, graphing ratio & proportion, area & volume calculation, right triangle trigonometry and simultaneous equations. Applications from the sciences and the engineering technologies are used extensively. Use of a scientific calculator is required.

Prerequisites: Indicated by skills assessment. No lab fee charged.

1172 Technical Mathematics II

Covered topics include: quadratic equations, equations involving fractions, oblique triangle trigonometry, solving exponential equations and equations requiring angles in radians. Applications from the sciences and the engineering technologies are used extensively. Use of a scientific calculator is required.

Prerequisites: 1171 or equivalent. No lab fee charged.

1173 Technical Mathematics III

4-0-4

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

4-0-4

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. Two-sample hypothesis testing of means, variances and proportions. non parametric statistical techniques including sign and rant tests. One-way and two-way analysis of variance (ANOVA). Experimental design by orthogonal arrays and linear graphs. Use of a statistical software package will be emphasized in hands-on learning sessions. A scientific calculator with STAT capabilities is required. Prerequisites: 1179. No lab fee charged.

1191 Algebra and Trigonometry I

Covered topics include: scientific calculations, unit conversions, geometry review, solving algebraic formulas, graphing, right triangle & oblique triangle trigonometry, quadratic equations and simultaneous equations. Applications from the sciences and the engineering technologies are used extensively. Use of a scientific calculator is required.

Prerequisites: Indicated by skill assessment. No lab fee charged.

1192 Algebra anl Trigonometry II

4-0-4

Covered topics include: solving exponential & logarithmic equations, complex numbers, solving trigonometric equations, variation, second degree simultaneous equations and graphs of trigonometric functions. Applications from the sciences and the engineering technologies are used extensively. Use of a scientific calculator is required. Prerequisites: 1191 or equivalent. No lab fee charged.

1193 Analytic Geometry & Calculus I

4-0-4

Covered topics include: Analytic geometry involving lines and the conic sections, graphs and analysis of polynomial functions, derivative concept and indefinite & definite integrals. Derivative applications include related rates and finding maximum & minimum points. Integral applications include areas and volumes and related topics. Applications from the sciences and the engineering technologies are used extensively. Use of a scientific calculator is required.

Prerequisites: 1192 or equivalent. No lab fee charged.

1194 Analytic Geometry & Calculus II

Covered topics include: Derivatives and integrals of transcendental functions, integration using tables, integration using the computer, double integrals and partial derivatives with application to Least Squares curve fitting. Applications from the sciences and the engineering technologies are used extensively. Use of a scientific calculator is required. A pocket computer would be helpful.

Prerequisites: 1193. No lab fee charged.

1195 Analytic Geometry & Calculus III

4-0-4

Covered topics include: Maclaurin Series, Taylor Series, Fourier Series, first order differential equations, linear differential equations, second order differential equations, equations with repeated roots, nonhomogeneous equations, Laplace Transform and numerical methods of solving differential equations. Applications from the sciences and the engineering technologies are used extensively. Use of a scientific calculator is

Prerequisites: 1194. No lab fee charged.

1198 Computerized Mathematics Studies for **Engineerng and Science Technology**

This course may be used in place of any of the 1191—1195 applied science mathematics courses. The course stresses the same content as the 119x sequence along with computer software enhancements derived from MathCad, Lotus, and True Basic. Other sofftware applications may also be introduced as time permits.

Prerequisites: Advisor approval. Lab fee charged.

1199 Special Studies-Mathematics

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

6-3-6

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 instructors' certification; CPR instruction, including instructors' certification.

1203 Security Investigation

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

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

3-0-3

1208 Criminal Law I 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.

1210 Introduction to Loss Control & **Security Administration**

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 renumeration 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, sabatage, 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 problem; Loss prevention to increase a business profit; areas covered include shoplifting, robbery, burglary, forgety 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

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 passes 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

3-0-3

3-0-3

This course deals primarily with fires, fire fighting equipment, and how to properly use or apply this equipment.setting up fire brigrades, train, and use them.

Prerequisites: None. Lab fee charged.

1224 Fundamentals of Fire Prevention

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 O.S.H.A. I (Occupational Safety & Health Act)

To familiarize the student with the functions, terminology, and procedures of the Occupational Safety and Health Act.

Prerequisites: None. No lab fee charged.

1235 O.S.H.A. II (Occupational Safety & Health Act)

A study of the Federal Register.

Prerequisites: None. No lab fee charged.

1236 Vehicle Safety

3-0-3

3-0-3

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

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 3-0-3

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 folder, broadsides and booklets.

Prerequisites: None. Lab fee charged.

1402 Typography

1-6-2 retation & construction of graphs. 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 2-6-4

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

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 or 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. A pallog A of notice bottom

1415 Graphic Arts Processes

Development and evaluation of printing devices. Graphic art processes in

stive and interential statistics

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

3-0-3

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

2-13-6

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. Advance 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

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 multi-

Prerequisites: 1480 or 1482. Lab fee charged.

1482 Flexo Photography

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

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 1

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 2

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: 1505 or equivalent. 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 Psychology: Child Development

This course discusses the child's life which 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 adolescence.

Prerequisites: 1506 or equivalent. No lab fee charged.

1509 Psychology: Adult Development

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: 1506 or equivalent. No lab fee charged.

1510 Psychology: Adolescent Development

Adolescence, the years between 12 and 22, are a period of tremendous changes physically, psychologically and socially. This course will examine these developmental issues as well as self concept, sex roles and identity, relating to parents, peers and achieving independence, value formation, and choosing and preparing for an occupation. Hazards of this age period, such as alcohol and drug abuse, will be discussed.

Prerequisites: 1506 or equivalent. No lab fee charged.

1512 Microeconomics

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.

1523 Sociology: Major Institutions

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 charged.

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 (1990) (1990) (1990)

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.

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.

1538 Case Studies in Labor Relations

3-0-3

A case study approach to the American Labor relations system and the application of labor law.

Prerequisites: 1535 or equivalent. 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

1-1-1

Introduces the student to the ROTC Program and gives the student a better understanding of the role of in 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 Fundamental 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 withinformation 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

Prerequisites: 1541, 1542, 1543. No lab fee charged.

1548 Today's Army

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

3-0-3

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.

1712 Data Entry Systems

2-3-3 toucs of operation and control, study

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: None. Corequisites: 1701. No lab fee charged.

1722 Advanced BASIC Programming

2-3-3

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. Program linkage and operating systems are introduced.

Prerequisites: "C" or better in 1701, 1721 and 1702. Lab fee charged.

1723 Assembler Language I

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 table manipulation.

Prerequisites: 1721. Lab fee charged. and and an ideal an

1731 Advanced Computer Operations 2-3-3

Instruction is given in the operating procedures of both on-line and offline equipment. Laboratory work will reinforce the above instruction by providing exposure to normal operator maintenance functions. Prerequisites: "C" or better in 1701 and 1711. Lab fee charged.

1732 Microcomputer Systems

3-0-3

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-

Prerequisites: "C" or better in 1701 or 1850. Lab fee charged.

1739 Operating Systems

2-3-3

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-

Prerequisites: "C" or better in one programming class and 1701. Lab fee charged.

1740 Operating Systems I

2-3-3

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

2-3-3

Advanced operations concepts, cataloged procedures; generation of test files—OS, MFT, MVT, VSAM; concepts of real-time operating systems and

Prerequisites: "C" or better in 1740. Lab fee charged.

1742 COBOL Programming I

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 hardward 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-sharing techniques.

Prerequisites: "C" or better in 1762. Lab fee charged.

1754 Data Communications I

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: "C" or better in 1701 or 1850. 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 reports.

Prerequisites: "C" or better in 1701 and 1721. Lab fee charged.

1762 COBOL Programming II

Advanced COBOL techniques using randomly processel 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: "C" or better in 1701, 1702, 1754. Lab fee charged.

1769 Programming Data Base Applications

The programmer will be introduced to the concepts of DataBase Management Systems, both Hierarchical and Relational. Problems will be assigned using the cobol database implementation. Prerequisites: 1762. 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 languages.

Prerequisites: 15 credit hours in technical courses including 1701 and

1721. Lab fee charged.

1772 Programming Technical Mathematics 3-2-3

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.

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 orientei 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

1.3.2

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 the curriculum.

Prerequisites: 15 credit hours of 1700 courses, including 1701 and 1721. No lab fee charged.

1784 Networking

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 and a sol del old . S. St. assistant 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 Survey of Data Processing

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

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

3-0-3

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 4-0-4

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

2-0-2

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.

3-0-3

1814 Case Studies - Industrial Sales 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

3-0-3

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.

1818 Advanced Purchasing

3-0-3

A detailed study of purchasing's role in the overall operation of company activities. Examine relationships between purchasing and other company departments.

Prerequisites: 1817. No lab fee charged.

1819 Contemporary Purchasing Issues 2-1-3

Current purchasing trends, market cost and value analysis, buying decisions. Course will incorporate use of microcomputers.

Prerequisites: 1817, 1818, 1850. 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.

1823 Business Law I

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

3-0-3

A continuation of Business Law I with a treatment of government regulations, trust, and insurance.

Prerequisites: 1823. No lab fee charged.

1825 Hotel Law

3-0-3

A study of the fundamental principles of hotel law concerned with the various public callings. Covers the essential lasws 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

3-0-3

This course covers the study of the securities and exchange commission. regulations as they relate to the offering, and management of client investments.

Prerequisites: 1823. No lab fee charged.

1832 Personnel Management

3-0-3

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

Presents a meaningful and realistic body of information about the complex and dynamic field of merchandising and operations as it pertains to retailing.

Prerequisites: Completion of 1845 or by permission of coordinator. No lab fee charged.

1842 Advertising & Display

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 introluced to give the students practical operating exper-

Prerequisites: None. No lab fee charged.

1846 Industrial Product Marketing I

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.

3-0-3

3-0-3

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

2-3-3

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: Keyboarding knowledge or 3007. Lab fee charged.

1851 Auditing

4-1-4

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

2-3-3

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 pracicing 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 2-2-3

This course is designed to acquaint students with Symphony, a fully integrated software package. Students will be introduced to three of Symphony's five microcomputer software applications; spreadsheet, word processing, and data management.

Prequisites: Basic microcomputer operations & keyboarding. Lab fee

1861 Electronic Spreadsheets (Lotus 1-2-3)

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: Keyboarding knowledge or 3007. Lab fee charged.

1862 Advanced Elelctronic Spreadsheets

This course teaches advanced concepts in spreadsheet applications utilizing LOTUS 1-2-3. The topics include macros, the command language, advanced data commands, advanced graph commands, transferring files, advanced functions, and LOTUS add-ins. Prerequisites: 1861. Lab fee charged.

1866 Computer Literacy

2-2-3

This course gives the student an overview of business applications software. Students gain "hands on" experience with electronic spreadsheets, word processing, and data base management. Prerequisites: None. No lab fee charged.

1867 Word Processing

A "hands on" course in the basic operation and management of word processing. Topics include how to enter and format text, how to use the special math features, and how to build project files. Prerequisites: None. No lab fee charged.

1868 Spreadsheet

This "hands on" course acquaints students with the concept of electronic spreadsheets. Topics include how to build a spreadsheet, use the major spreadsheet manipulation commands, use the special mathematical functions, use project processing and design, and print graphs.

1869 Data Manager

This "hands on" course acquaints students witht he concept of data base management. This includes how to create a data base, set up data entry procedures, manipulate data, generate reports, and set up project files. Prerequisites: None. No lab fee charged.

1870 Desktop Publishing

The program is designed to provide high quality training in the field of Desktop Publishing with PC Pagemaker. The student is expected to become proficient in Pagemaker skills to build reports, build newsletters and create display ads using the IBM Personal Computer.

1872 Offshore Sourcing

The purpose of this course is to help the student understand the planning and procedures necessary to participate in International Purchasing, Discussions include import/export activities, quotas and tarriff regulations. Prerequisites: 1817, 1818. No lab fee charged.

1999 Special Problem Seminar

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

3-0-3

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 particulars, air flow measurements and quality standards, toxic concentrations. To include: area ventilation heat stress, noise characteristics, electromagnetic energy measurements and illumination.

Prerejuisites: 2000. Lab fee charged.

2011 Industrial Hygiene Oontrol General methods of controlling environmental factors and stresses which influence health.

Prerequisites: None. No lab fee charged.

2199 Special Problems Seminar

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 Introcution to 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, radio-activity, 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.)

Prerequisites: None. Corequisites: 1150 or 1170 (Competency test may be waived.)Lab fee charged.

2209 Mechnical Chemistry Survey

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

The major emphasis will be placed on the theory of basic electricity, circuit building and analysis, and VOM instruments. The fundamental of analog and digital electrics are presented. The topics of measurement, mass and weight will be examined.

Prerequisites: None. Corequisites: 1161 or 1170. Lab fee charged.

2222 Technical Physics II

The topics of mechanics, pressure, density and heat will be examined. The treatment of mechanics with emphasis on kinematics and dynamics of moving objects, including rotational motion and machines. Heat with emphasis on temperature scales; expansion; energy; specific heat; latent heat; heat of combustion; and the gas laws.

Prerequisites: 2221. Lab fee charged.

2223 Technical Physics III

2-3-3

Topics to be examined include the structure of matter, the laws of thermodynamics, energy conversions, engines, ideal gases, properties of waves, doppler effect, electromagnetic waves, optics, and modern physics. Prerequisites: 2221. Lab fee charged.

2231 Fundamentals of Inorganic Chemistry

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, unsaturaged aromatic hydrocarbons; alcohols; phenols; aldehydes; ketones; acids; amines.

Prerequisites: 2231 or 2200. Lab fee charged.

2233 Fundamentals of Biochemistry

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

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

3-2-4

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

III yaclandasi svitomotuA 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: None. Corequisites: 1161 or math assessment. Lab fee charged.

2291 Physics I

3-2-4

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.

2293 Physics III

Electromagnetic radiation with emphasis on the Wave Nature: Basic Wave properties; the Electormagnetic 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

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

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

5-10-8

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: 2501. Lab fee charged.

2503 Automotive Technology III

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

Automotive service and trouble-shooting. 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: 2501, 2502, 2503, 2504. Lab fee charged.

2506 Machine & Hand Tool Lab

2-3-3

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

Organization, design, lay-out, 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

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.

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: None. No lab fee charged.

2803 Menu Production & Purchasing

Examination & Production of a full service menu to develop a food service purchasing system.

Prerequisites: None. 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

3-0-3

Encountering the problems of human resources while learning the elements of leadership and supervision. Prerequisites: None. No lab fee charged.

2806 Beverage Management

3-0-3

Studies of actual situations, pricing and profit, beverage personnel job descriptions, terms, merchandising, liquor laws in relation to hospitatlity refreshments.

Prerequisites: None. Lab fee charged.

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, cullinary terms, and menu preparation. Prerequisites: None. Lab fee charged.

2808 Food and Beverage Lab I

0-4-1

A practical application of service and kitchen duties in a full service res-

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 res-

Prerequisites: 2801, 2808. Lab fee charged.

2811 Introduction to Hotel-Motel Management 3-0-3

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 and Land Assistance **Procedures**

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

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 ManagementIst; 1/4x3-0-3

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

Establishing a sales department and sales personnel for the hotel-motelrestaurant 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

Basic classical soups, salad making, basic meat, fish and poultry, basic baking, confectionery, menu planning. Prerequisites: 2822, 2827. Lab fee charged.

2824 Chef Advance Cookery I 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: 2822, 2823, 2827. Lab fee charged.

2825 Pastry & Confectionary 4-8-6 Through lab and lecture, you will gain a working knowledge of the following; pastry and confectionary for the hotel and restaurant industry, dessert menu planning, correct orientation and familiarization with the patisserie environment, all basic pastry preparations and apply them to classical dessert making.

Prerequisites: 2822, 2823, 2824. Lab fee charged.

2826 Classical Cookery 2-4-3

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: 2822, 2823, 2824, 2825, 2827. 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: 2822. Lab fee charged.

2901 Principles of Marketing I 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

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

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 opera-

tion of the Federal Reserve Systems. Prerequisites: None. No lab fee charged. 2906 Credit & Collections

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

Case studies of companies - some strategies that failed along with those that suceeded. 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

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

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

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: 3007 or keyboarding knowledge. Lab fee charged.

2912 Principles of Accounting II

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 relate to everyday business are discussed as part of daily class routines. Prerequisites: 2911, 1850. 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, 1850. No lab fee charged.

2914 Cost Accounting I

3-0-3

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: 2912. No lab fee charged.

2915 Cost Accounting II

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 and corporations.

Prerequisites: 2917. No lab fee charged.

2919 Intermediate Accounting I

3-0-3

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: 2913. 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

3-0-3

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

3-0-3

A study of the nature of business, forms of business ownership, produc-

tion 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 countersmeasures, 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

3-0-3

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

3-0-3

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

3-0-3

Continuation of course 2931, practical methods for successful management of property at the on-site level. This course encompasses management planning, personnel and resident policies, accounting and budgeting, legal aspects, insurance, marketing, leasing and sales, maintenance management and energy conservation. Prerequisites: 2931. No lab fee charged.

2933 Executive Level Property Management

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 and 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

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 salesman-

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

3-0-3

An introduction to real estate economics; principles of contracts, financing, brokerage, appraisal. This course is requirel by the state of Ohio prior to taking the sales license exam.

Prerequisites: None. No lab fee charged.

2952 Real Estate Brokerage

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

3-0-3

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

3-0-3

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.

Real Estate Appraisal II -

Income Producing Properties

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

3-0-3

Issues and problems facing the real estate industry. Case studies dis-

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: None. No lab fee charged.

2961 Financial Planning

3-0-3

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 Principles of Investments

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: 2960. No lab fee charged.

2963 Investment Tax

3-0-3

Course content will cover tax treatment of all savings and investment vehicles including IRA's 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

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.

2971 Small Business Management I

3-0-3

This is a beginning course in the ownership and operation of a small business, covering the areas of formation and start-up. The course also includes your basic sources of funding and financial management as well as location and layout.

Prerequisites: 2926. No lab fee charged.

2972 Small Business Management II

This is the second course in the ownership and operation of a small business, covering the elements of management and control. The course also includes marketing as well as legal implications and government regulations that affect a small business owner.

Prerequisites: 2971. No lab fee charged.

2975 Business Management Seminar 2-3-3 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. Lab fee charged.

3001 Typewriting I 2-3-3

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 II

2-3-3

Brief review of keyboard and techniques; intensified drills on improvement of speed and accuracy; progress through business letters, forms,

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 typewriting.

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.

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.

3006 Typewriting Skill Development

A typing course designed for those students who have had previous instruction on the typewriter and know the keyboard, but who have not achieved proficiency in speed and accuracy to continue on to Typewriting II. The Cortez Peters system of diagnostic testing and analyzation is used to improve speed and accuracy.

Prerequisites: Keyboarding knowledge or permission of instructor. Lab fee charged.

3007 Introduction To Keyboarding

A keyboarding class designed for all Business Technologies students who do not have a basic keyboarding skill. This course emphasizes keyboarding on computers. Prerequisites: None.

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

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 students must have a grade of "C" or better in 3023. Lab fee charged.

3024 Secretarial Procedures

3-0-3

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. No 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 fee charged.

3027 Office Practicum

2-3-3

Designed for the student who has elected to follow the General Secretarial Curriculum. Each student's program is to 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

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, incluling decision-making responsibility, creative work, and human relations.

Prerequisites: 3027. No lab fee charged.

3032 Office Procedures/Professional Development

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.

3035 Essential Business Correspondence An office specialist technologies' basic business correspondence course that involves proofreading, spelling, vocabulary building, and business correspondence—origination, formatting, and distribution. Prerequisites: 3001 or 3006. 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

1-4-3

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 Opertions 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 unformattel 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.

3050 Word Processing I

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

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

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: Keyboarding knowledge or 3007. Lab fee charged.

3062 Information Records Processing 1-4-3

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 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

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

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

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, 3023, 3061, 3062, 3063, 3064, and 3065. No lab fee charged.

3080 Speedwriting I

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 Shorthand: Speed Development

Designed for those students who have had previous speedwriting training and can transcribe within a 5 percent error allowance from shorthand notes dictated at the rate of 60 words per minute. The student is introduced to dictation from material which is not familiar. Emphasis is on speed development.

Prerequisties: 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

1-4-3

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

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

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

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.

Prerequisties: 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 dictaiton 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

Designed for those students who enter the program with advanced standing and who are place 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 coordina-

3090 Shorthand Transcription

4020 Fundamentals of Pathophyslutogy An immoduction to basic disease processes in

A continuation of shorthand with emphasis placed on mailable transcription with a review of punctuation and spelling.

Prerequisites: "C" or better in 3081 or permission of coordinator. Lab fee

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 1-0-1

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 2-2-3

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 2-3-3

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 2-2-3 plant walk field trips are required.

Classification, identification, and general cultural requirements of annuals, perennials, bulbs, and roses, commonly used in garden plant-

Prerequisites: None. No lab fee charged.

3506 Nursery Management 2-2-3

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

8-2-8 armacology as they relate to the skele

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. Field activities required.

Prerequisites: 3510, 3521, 3532. No lab fee charged.

3508 Turfgrass Management

narmacology as they relate to the Principles and practices of identification, growth, uses, establishment, and pest control of turfgrass areas. Field trips required.

Prerequisites: 3510. No lab fee charged.

4050 Patient Care Skills

3509 Principles of Landscape Design 2-3-3 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

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 2-3-3

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

2-3-3

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 design 2-4-3

A continuation of the principles of Landscape Design, with progressively difficulty 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 2-2-3

Principles and practices in diagnosing and treating plant diseases and insect problems on various horticultural crops. Prerequisites: None. Lab fee charged.

3525 Plant Propagation

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

Principles and practices involved in building and maintaining the greenhouse and structures controlling the environment within the greenhouse which is vital to plant growth. Legislate of lab on legislates which is vital to plant growth.

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

1-1-1 elated procedures.

Guest speakers and field trips dealing with current industry topics. "For second year students." 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

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

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

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 2-3-3

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 1-5-3

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

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 2-3-3 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 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, spring and early summer months. Prerequisites: 3501, 3502, 3525, 3528. Lab fee charged.

4000 Introduction to Medical Terminology 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 pronounciation 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 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 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 3-3-4 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 Structure and function of the human body. Topics discussed include the gastro-intestinal 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

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 3-0-3 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 A study of the movement of body parts stressing the relationship to rehabilitation therapy. Prerequisites: 4014, 4015 or permission of instructor. Corequisite: 4613,

4623. No lab fee charged.

4029 General Microbiology and Immunology 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 1-3-2 Principles and techniques for planning, designing, producing, implementing and evaluation and 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 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 3-2-4 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 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.

4061 Contemporary Health Care Issues 3-0-3 This course will acquaint students with health care economics and new trends and issues in health care. Prerequisites: None. No lab fee charged.

4094 Workshops in Heath 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 Immunology A student inititated 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. This course is approved for "S" and "U" grades. Prerequisites: Varies. No lab fee charged.

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

4-0-4

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 charged.

4104 Clinical Nutrition I

An introduction to Nutritional Therapy and Assessment. Course used 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: 4130. Corequisites: 4113. No lab fee charged.

4106 Clinical Nutrition II

4-0-4

Nutritional therapy and assessment for endocrine, cardiovascular, and respiratory disorders. Also included is the role of the senses in food

Prerequisites: 4104. Corequisites: 4114, 2232 and 4016. No lab fee charged.

4107 Clinical Nutrition III

Nutritional therapy and assessment for metabolic, gastro-intestinal, 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 willness, and health maintenance programs. High risk groups such as infants, adolescnets, pregnant and lactating women, and senior citizens are studied.

Prerequisites: 4107. Corequisites: 4116. Lab fee charged.

4109 Dietetics Seminar

2-0-2

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 & Directel Practice I

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: 4111, 4102. 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

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 Practice**

0-5-1

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.

This course will be graded using:

U - Unsatisfactory, and

S - Satisfactory

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. a abrabanata asbulant st

4122 Institutional Food Systems I

2-3-3

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

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

2-0-2

This course includes all aspects of institutional food service sanitation for both the commerical and health care industries. Upon completion the student will receive a certificate approved by the Ohio Department of

Prerequisites: None. No lab fee charged.

4125 Quantity Food Production

A lecture/laboratory course in quantity food preparation invovling 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: 4121. Corequisites: 4143. Lab fee charged.

4126 Records & Cost Control

Record keeping and controls needed in health care food service operations. Health care applications of Accounting I and II principles are incorporated.

Prerequisites: 2912. Corequisites: None. No lab fee charged.

4127 Institutional Food Service Equipment, Layout, and Planning

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: 4122, 4125, 4145. No lab fee charged.

4129 Institutional Food Systems II

This course is a continuation and implementation of the principles learned in 4122 as well as a correlation of principles from personnel management quantity food production, sanitation, marketing and food presentation. Quality control of the total food service delivery system will be experienced and analyzed through the operation of a small dining room. Prerequisites: 4031, 4122, 4125. 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

2-0-2

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.

4132 Basic Diet Therapy

2-0-2

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

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

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 providors 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 Food service management rotation in a health care facility parallel to didactics studied in quantity food production. Approved for grade of

Prerequisites: 4112. Corequisites: 4122. Lab fee charged.

4144 Food Service Management Directed Practice IV Food service management rotation in a health care facility parallel to didactics studied in institutional Menu Planning. Approved for grade of

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 Precurement Systems. Prerequisites: 4144. No lab fee charged.

4146 Food Service Management Directed Practice VI 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 2-0-2 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 to year.

Prerequisites: None. No lab fee charged.

4199 Special Studies - Dietetics

Var-Var-1-4 A student initiated academic pursuit, mutually agree 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. This course is approved for "S" and "U" grades.

Prerequisites: None. No lab fee charged.

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

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

2-3-3

Course will include the following content areas: medicaitons, sterile procedures, assisting in monor office surgeries, assisting in ob/gyn special examinations - pap smears, pelvics, proctology, etc.

Prerequisites: 4202. Lab fee charged.

4204 Medical Laboratory Procedures I

This course includes modular units in the following content areas: the use of basic laboratory equipment, specimen collection and hematology procedures, coagulation tests, blood group and rh typing and basic serology testing.

Prerequisites: 4041. Lab fee charged.

4205 Medical Laboratory Procedures II

Continuation of Medical Procedures I with emphasis on urinalysis, including microscopics, microbiology, blood chemistry testing including glucose, cholesterol and BUN; and other diagnostic techniques such as electrocardiography, X-ray procedures, ultrasound, CAT scan, radionuclides and pulmonary function testing. Prerequisites: 4204. Lab fee charged.

4206 Medical Laboratory Procedures III

Special diagnostic procedures and techniques including ECG interpretation, microbiology diagnostic techniques, ova and parasites, uses of standards and controls, troubleshooting x-ray procedures and techniques. Prerequisites: 4205. Lab fee charged.

4208 Insurance & Patient Records

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

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.

4211 Medical Assisting Clinical Experience I

0-21-3

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 renumeration for these experiences.

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 experiences.

Prerequisites: 4208, 4205, 4441, 4211, or permission of instructor. No lab fee charged.

4213 Medical Assisting Clinical Experience III

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 renumeration for these

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 con-

cerns. 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, patients admissions, transfers, and discharges are included. Prerequisites: Acceptance into Unit Coord program. No lab fee charged.

4271 Health Unit Coordinating I and Directed Practice The course incorporates concepts presented in course number 4270 into the area of transcribing physician orders. The course will provide special emphasis on transcription of orders involving medications. Directed practice in a health care facility paralleled to didactics. Prerequisites: 4270. Lab fee charged.

4272 Health Unit Coordinating II 2-4-4 This course is a continuation of course 4271, and focuses on skills involving transcription of orders for diagnostic and therapeutic procedures. Directed practice in a health care facility paralleled to didactics. 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 is 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.

4281 Health Unit Coordinator Practicum 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 in a health care facility. The clinical rotation is parallel to didactics covered on campus. 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 reveiw 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-0-1-4 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. This course is approved for "S" and "U" grades. Prerequisites: None. No lab fee charged.

4301 Basic Laboratory Techniques 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 speciman collection and handling.

Prerequisites: Acceptance into tech courses of ML Program. Lab fee

4302 Basic Hematology & Urinalysis 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-Prerequisites: 2231, 2232, 4301. Corequisites: 2233. Lab fee charged.

4305 Blood Bank - Serology

4-6-6 A study of blood banking procedures and theory including the inheritance 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: 4023, 4301. Lab fee charged.

4306 Clinical Microbiology Study of diagnostic microbiology including isolation, identification of bacteria, use of media, aerobic and anaerobic culturing techniques and preparation and staining of slides. Includes parasitology and mycology. Prerequisites: 4009. Lab fee charged.

4307 Hematology II 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.

4308 Special Laboratory Procedures 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 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

4313 Clinical Applications III - Blood Bank-Serology 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 microbilogy 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

4315 Laboratory Practicum I

fee charged.

On campus laboratory experience in hematology, urinalysis, coagulation, and clinical chemistry. The practicum will stress workload organization, record keeping, quality control, routine maintenance, and trouble-shooting of related instrumentation. Approved for grade of S or U. 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. Approved for grade of S or U. Prerequisites: 4305, 4306. Lab fee charged.

4350 Orientation to the Clinical Lab Experience in the clinical laboratory, designed to familiarize the student with laboratory organization, speciman collection and handling with emphasis on phlebotomy experience. Prerequisites: 4301. Lab fee charged.

4351 Clinical Experience I 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.

4352 Clinical Experience II Students are assigned to the clinical laboratory where previously learned

3-0-3

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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: 4312. No lab fee charged.

4353 Medical Laboratory Clinical Practice
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. Approved for grade of S or U. Prerequisites: 4315, 4350. No lab fee charged.

4380 Introduction to PhlebotomyThe course is designed to familiarize the student with health care issues directly related to the phlebotomist. An overview of health care organizations, legal aspects, professional development, as well as laboratory tests and their clinical significance are discussed.

Prerequisites: Acceptance into phlebotomy program. 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: 4380. Lab fee charged.

4391 Phlebotomy Clinical Practice
Students are assigned to a local health care facility for practical experience in adult phlebotomy. Course requies 100 hours of clinical practice and attendance at scheduled seminars.

Prerequisites: 4390. Lab fee charged.

4394 Interpretation of Laboratory Values

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.

A student initiated academic pursuit, mutually agreed upon by the student and faculty member and carriel 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 ProcessingBasic 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.

4401 Medical Record Science I
(Introduction to Medical Record Technology and Case Record Analysis.)
The history of advances in medicine and medical education, hospitals and the profession of Medical Records, organization and functions of Medical Record Department; roles of RRA and ART; admitting office procedures and numbering and filing systems.

Prerequisites: None. Lab fee charged.

4402 Medical Record Science IICoding according to ICD-9 CM. Introduction to other classification systems including SNDO, SNOP, CPT, DSM-11 and Cancer Registry and Manual of Tumor Nomenclature and Coding.

Prerequisites: 4000, 4401. Lab fee charged.

4403 Medical Record Science III

(Health Statistics.) Statistical procedures including calculations of dailycensus, monthly census and percentages. Analysis of reports including simple narration of comparative data. Vital statistics including preparation of birth and death certificates and reporting of communicable diseases. Health data retrieval.

Prerequisites: 4401. Lab fee charged.

The medical Record Science IV

3-0-3
The medical record as a legal document; confidential communication, consents and authorizations for release of medical information, preparation and presentation of the record in court; microfilming and record retention; record keeping in nursing homes and intermediate care facilities including Medicare and Medicaid Laws and J.C.A.H. standards.

Prerequisites: 4401. No 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 AnalysisIntroduction 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 Facilities

3-1-4

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.

4416 Coding of Diagnoses, Operation and Procedures 5-5-7
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 charged.

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 approprite 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.

4419 Advanced Coding
Further understanding of coding classification according to ICD-9-CM.
Includes an introduction to the Prospective Payment System, DRG coding procedures and the computer applications available to increase coding productivity. Provides an additional overview of other major coding classification systems such as SNDO, CPT and DSM-III.

Prerequisites: 4416 or 4445 & 4446 or permission of coordinator/instructor. No lab fee charged.

4428 Medical Record Directed Practice I

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.

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 termi-

nology and transcription related to diseases and operations encountered in transcription of various types of medical specialty reports; autopsy

Prerequisites: 4000, 4441. Lab fee charged.

4445 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

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

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. This course is approved for "S" and "U" grades.

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, electrrosurgical unit, catheders/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 opening and closure, hernias of the abdominal region, biliary and gastric surgery. Students will focus upon an analysis of associated pathological conditions in relationship to normal anatomy and physiology and integrate diagnostic tests commonly utilized to confirm existing pathology.

Prerequistes: 4506. No lab fee charged.

4532 General Surgery II

Course content will include discussion of bowel, breast, obstetrical and gynecological operative procedures. Students will focus upon an analysis of associated pathological conditions in relationship to normal anatomy and physiology and integrate diagnostic tests commonly utilized to confirm the existing pathology.

Prerequisites: 4531. 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

5-0-5

Course content includes the study of additional specialized areas of sur-

gery, plastic reconstructive otorhinolargyngology and oral surgery, neurosurgery, peripheral vascular and cardio-thoracic operative procedures. Anatomy, physiology and pathophysiology is integrated into the discussion of each speciality.

Prerequisites: 4533. No lab fee charged.

4538 ST Seminar

3-0-3

The course consist 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

0-5-2

This course involves supervised practice of selected circulator skills within a simulated lab on campus and also within the operating room of an affiliated hospital. Demonstration of patient 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 experience in selected circulator skills. Students will then focus upon the scrub rule; The application of sterile techniques, scrubbing, gowning, gloving, patient draping, back table and mayo set-ups, passing of surgical instruments and sutures. Demonstrations of the preparation of medications and irrigating solutions will also be provided.

Prerequisites: 4542. Lab fee charged.

4544 ST Clinical Experience III

This course is a continuation of 4543. The course will primarily focus upon the application of the basic scrub role skills in the clinical setting. 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

1-40-7

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

Prerequisites: 4552. No lab fee charged.

4594 Fundamentals of Operating Room Nursing

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 0.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. This course is approved for "S" and "U" grades.

Prerequisites: None. No lab fee charged.

3-0-3

Prerequisites: Acceptance into OTA program. No lab fee charged.

4610 Theory of Occupational Therapy Introduction to the developmental process of human performance; exploration of occupational tasks and roles from birth to death; instruction in age-appropriate balance of work, self-care, play/leisure; introduction to the impact of disease and function in human occupation; and

development of the therapeutic use of self. Prerequisites: 4600. No lab fee charged.

4611 Occupational Therapy Concepts and Skills - Psychosocial

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: 1505, 1506, 4014, 4600, 4610. No lab fee charged.

4612 Occupational Therapy Concepts and Skills - Infants and Children

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 occupational performance age-appropriate treatment interventions. Doc-

umentation skills are developed. Team approach is explored. Prerequisites: 4014, 4015, 4600, 4610. Corequisites: 1508. No lab fee charged.

Occupational Therapy Concepts and **Skills - Phys Disabilities**

Introduction to the role of Occupational Therapy in the treatment of adults with physical dysfunction to include acute care and rehabilitation. Emphasis is an understanding the treatment techniques utilized for various disabling conditions. Treatment planning and implementation are developed along with documentation skills. Emphasis is on adolescence through adulthood.

Prerequisites: 4014, 4015, 4016, 4600, 4610. Corequisites: 4025. No lab fee charged.

4614 Occupational Therapy Concepts and Skills - Gerontology

Introduction to the role of Occupational Therapy with the elderly population. Emphasis is on understanding the aging process and function pertinent to the elderly. The role of the OT assistant in non-traditional settings is explored.

Prerequisites: 1509, 4014, 4015, 4016, 4600, 4610. No lab fee charged.

4620 Techniques of Occupational Therapy Instruction in the use of crafts and activity as therapeutic modalities in treatment toward function. The concepts of activity analysis and thera-

peutic adaptations are emphasized. Problem-solving skills are developed.

Prerequisites: 4600. Lab fee charged.

4621 Occupational Therapy Media - Psychosocial 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. Emphasis is on adolescence through adulthood.

4622 Therapeutic Media - Infants and Children 0-4-2 Instruction in therapeutic intervention with infants and children to include the use of play as a therapeutic tool, evaluation of other occupational performance skills, adaptive equipment, therapeutic techniques for positioning, handling, feeding, and basic developmental screening. Problem solving skills are emphasized.

Prerequisites: 4600, 4620, 4621. Lab fee charged.

Prerequisites: 4600, 4620. Lab fee charged.

Therapeutic Media for Occupational Therapy -**Phys Disabilities**

Instruction in therapeutic intervention for physically disablied 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, 4622. Lab fee charged.

4624 Occupational Therapy Therapeutic Media -Gerontology

Instruction in therapeutic intervention for elderly individuals in a geriatric setting to include selection of role and age appropriate occupational performance, use of recreational/leisure activity, and application of group process. Occupational Therapy treatment approaches in non-traditional settings are explored.

Prerequisites: 4600, 4620, 4623. Lab fee charged.

4625 Survey of Therapeutic Media for **Occupational Therapy**

Instruction in the use of various crafts and activities, cost analysis, and application in various clinical settings. Teaching and in-servicing skills are

Prerequisites: 4609, 4620. Corequisites: 4631. Lab fee charged.

4631 Occupational Therapy Fundamentals 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: 4025, 4020, 4600, 4610. No lab fee charged.

4651 Occupational Therapy Assisting Field Work 1

Provides the opportunity for directed observation and participation in a community Occupational Therapy setting. Prerequisites: 4600. Corequisites: 4007. Lab fee charged.

4652 Occupational Therapy Assisting Field Work 2 (Level I)

Provides the opportunity for directed observation and participation in a community Occupational Therapy setting. Prerequisites: 4651, 4007. No lab fee charged.

4653 Occupational Therapy Assisting Field Work 3 (Level I) 1-8-2

Provides the opportunity for directed observation and participation in a community Occupational Therapy setting. Prerequisites: 4007, 4651, 4652. No lab fee charged.

4660 Occupational Therapy Assisting Field Work 4

2-32-6

A clinical practicum in Occupational Therapy settings. An 8 week period of full time work experiences under the supervision of a registered occupational therapist provides the student with in-depth experience in the delivery of Occupational Therapy services to a variety of ages and condi-

Prerequisites: Completion of all 46xx level courses and permission of instructor. Lab fee charged.

4661 Occupational Therapy Assisting Field Word 5 A clinical practicum in Occupational Therapy settings. An 8 week period of full time work experience under the supervision of a registered occu-

pational therapist provides the student with in-depth experience in the delivery of Occupational Therapy service to a variety of ages and condi-

Prerequisites: Completion of all 46xx level courses. No lab fee charged.

4699 Special Studies - OTA

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. This course is approved for "S" and "U" grades.

Prerequisites: None. No lab fee charged.

4700 Introduction to Respiratory Therapy History of respiratory therapy profession including: job descriptions, information about respiratory therapy professional organizatoins, and the

future directions of respiratory therapy. Prerequisites: Acceptance into Respiratory Therapy Program. No lab fee

4701 Respiratory Therapy Science I History of and introduction to the field of Respiratory Therapy. Introduc-

tion 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 and 4014. Lab fee charged.

4702 Respiratory Therapy Science II

Respiratory therapy equipment and procedures with emphasis on recognition, assembly and function of equipment used in IPPB, 02 and aerosol therapy and chest physiotherapy. Pharmacology applicable to respiratory therapy procedures is treated. Pediatric applications will also be disPrerequisites: 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 reconition, assembly and function of equipment and routine monitoring under supervision. Pediatric

Prerequisites: 4702, 4015. Lab fee charged.

4704 Respiratory Therapy Science IV

applications will be discussed.

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

This course is a review of cardiopulmonary anatomy and physiology. Care of the critically ill patient and the significance of hemodynamic monitoring techniques are also discussed.

Prerequisites: 4705, 4016. No lab fee charged.

4707 Respiratory Therapy Science VII

In depth study of specialized areas of respiratory care including pulmonary rehab, pulmonary function testing, pediatrics intensive care etc. These areas are subject to change each year to correspond to the changing job description of the respiratory therapist. Use of computerized clinical simulations.

Prerequisites: 4706. Lab fee charged.

4711 Respiratory Therapy Clinical Practice I

An introduction to the hospital environment with practical application of 02 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 0-24-4

A continuation of 4712. Neonatal applications are also treated. Prerequisites: 4712, 4703. No lab fee charged.

rerequisites: 4712, 4703. No lab fee charged.
4714 Respiratory Therapy Clinical Practice IV 0-32-5

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 V 0-16-3

Application of advanced respiratory care techniques. Emphasis on patients in the critical care setting.

Prerequisites: 4706. Lab fee charged.

4716 Respiratory Therapy Clinical Practice VI 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 Pulmondary 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, 02 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

Practice in NBRC testing techniques. Student presentation of research topic. Discussion of current issues relating to the respiratory care profes-

Prerequisites: None. Lab fee charged.

4770 Basic Electrocardiography 3-2-4

An introduction to the principles of electrocardiography. Designed to acquaint students with cardiac anatomy and physiology, taking the ECG, patient prepatation, 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

0-20-1

This 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 0-0-1-4

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. Why and going sharpshif a membook

4795 Workshop in RT II

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 carriel 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. This course is approved for "S" and "U" grades.

Prerequisites: None. No lab fee charged.

3-2-4

In this course, the students will study the demographics of aging, its impact on the social, economic and cultural components of American Society. Discussion will also include topics regarding current services rendered by health care institutions to the senior client. Some lab will be conducted at local health care facilities.

Prerequisites: Acceptance into program. No lab fee charged

4800 Introduction to Geriatric Technology

4805 Activity Therapy

2-2-3

The course prepares the student to use activity as therapy for the elderly in group settings.

Prerequisites: None. Lab fee charged.

4815 Physiology of Aging

This course will focus on the physiological theories of aging, life expectancy, senescence of body systems and the normal developmental aspects of early, middle and old age. Prerequisites: 4014, 4015. Corequisites: 4016.

4820 Aging and Disease

5-0-5

The pathophysiological conditions of aging are examined in this course. Also the therapeutic measures includihng medication regimens and associated problems.

Prerequisites: 4020, 4815. No lab fee charged.

4830 Mental Health and the Elderly

This course is designed to acquaint the student with the manifestations of aging including changes in mental health status, psychological alterations and the necessary therapeutic activities for maintaining the mental health of the senior client. Includes practice in facilitating and motivation individual and group activities.

Prerequisites: 1505, 1509. No lab fee charged.

4850 Geriatic Care Seminar

5-0-5

A survey of current issues in geriatric health care are conducted via discussions, case management activities, guest speakers and field trips. Prerequisites: Permission of instructor. No lab fee charged.

4899 Special Studies - GER and belialloanu to belialloa

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.

4999 Special Studies - NUR

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.

Introduction to Technical Writing 5001 & Editing Careers

While introducing students to career requirements and options in technical writing and editing, this course also offers opportunities to assess prior life and work experience in order to set realistic career goals. Course activities include interviews with professionals in the field of technical communication; assessment of student learning style, personality type, and writing and editing capabilities; directed reading and journal-writing; and development of a resume, job application letter, portfolio of work samples, and other career-related support materials. Conferences with the instructor are required.

Prerequisites: None. No lab fee charged.

5002 Introduction Computer-Assisted Writing

This course provides the beginning computer user an overview of skills needed to operate the personal computers in the CTC Writing Center, with emphasis on the use of word processing and graphics software. Laboratory work includes effective use of software applications to produce documents, integrate graphics with text, and produce documents on dot matrix and laser printers.

Prerequisites: 3007 or equivalent. Lab fee charged.

5010 Planning and Preparing Illustrations

2-2-3

In this course students learn effective ways to display statistical data graphically and to use illustrations as integral parts of documents. Students will review methods of scientific inquiry; identify statistical methods and terminology; determine kinds and styles of illustrations; develop and maintain resource files for illustrations; review principles of design and typography; and prepare tables, charts, and graphs.

Prerequisites: 1017. No lab fee charged.

5015 Technical Publication Production An introductory course for writers and editors, covering the principles and techniques needed to professionally design and produce a variety of printed materials. Students will learn the vocabulary and practice the skills used by typesetters, printers, graphic artists, and other print publication specialists. Laboratory work includes both traditional and computerassisted publication tools.

Prerequisites: None. Lab fee charged. 5016 Computer-Assisted Publishing

This course presents an in-depth study of page layout software for personal computers Students will apply computer-assisted page layout skills for material such as brochures, posters, newsletters, and reports. Students will also practice formatting text, positioning graphics, and sizing and cropping graphics.

Prerequisites: 5002. Lab fee charged.

5022 Technical Presentations

3-2-4

Technical communicators must use presentational communication to advocate points of view, report the outcomes of projects, or sell particular services or products. This course emphasizes the analysis, management, styles, and evaluation of various forms of presentational communication used in business and professional settings. Course work includes a variety of interpersonal, group, and public communication situations, using audio or visual aids.

Prerequisites: None. No lab fee charged.

2-5-4

5032 Writing Instructional Documents In this course, students focus on development of instructional materials for varied audiences. Topics include the requirements and restraints of the instructional process, audience analysis, and process and mechanism description. Students will prepare one or more manuals for general and technical products. Confrernces with the instructor are required. Prerequisites: 1018 & 5010. Lab fee charged.

5033 Writing Promotional Documents

In this course, students analyze and practice writing narrative, expository, persuasive, and promotional prose as applied to a variety of technical communication projects. Topics include audience ananlysis, definitions, and marketing communication techniques. Students will produce memos and reports, solicited or unsolicited proposals, press releases, and brochures or newsletters.

Prerequisites: 1018 & 5010. Lab fee charged.

5040 Critical and Creative Thinking

Technical writers and editors must consider many options and implement many decisions as they plan, write, and edit documents. In this course students are encouraged to understand and practice using a variety of thinking tools, including analyzing, selecting, interpreting, grouping, evaluating, and establishing order and relation. Students will use these tools to assess and solve abstract and practial problems.

Prerequisites: 3 credits English composition. No lab fee charged.

5041 Technical Editing Methods and Techniques I

This course explores skills and techniques that are essential to the editorial process. Topics include theory and application of the levels of edit approach, proofreading and copy marking, the editor/author relationship, the editorial assessment process, editorial stylebooks and other resource materials, and editorial behaviors. Students will proofread and edit a variety of manuscripts.

Prerequisites: 5040 & 1018. No lab fee charged.

5042 Technical Editing Methods and Techniques II Students will continue analyzing issues and practicing techniques of tech-

2-2-3

nical editing. Activities include understanding the interaction between editors and other publications specialists, editing large manuscripts, preparing stylebooks, and performing special editorial tasks such as preparation of abstracts, indexes, and bibliographies. Students will proofread and edit a variety of manuscripts.

Prerequisites: 5041. No lab fee charged.

5051 Organizational Dynamics and Career Assessment

This course analyzes organizational structures and management techniques. Topics include organizational development, leadership styles, and time and stress management. Students will assess their personal and career goals, compare these goals to organizational needs and practices, and review job-seeking skills.

Prerequisites: 5040 & 1018. No lab fee charged

Technical Communication Seminar -Review of Products and Processes

In this course, which must be taken last in the Technical Writing & Editing program, each student prepares a professional portfolio developed from his or her previous academic, cooperative employment, and other experience. Students are required to review their portfolios, informally and through formal oral presentation, with a panel of professional technical communicators from local business and industry. The panel members will assess whether the individual students could be able to acquire entrylevel positions as technical communicators. Extensive laboratory work and conference with instructors are required.

Prerequisites: Successful completion of all TWE core courses. No lab fee

charged.

5099 Special Problems in Technical Writing Individual study and special projects pertaining to the student's technology are assigned. This course is open to students wishing advanced standing, independent study, or implementation of specialized writing projects. This course is arranged with the coordinator, with the approval

of the Dean of the Communication Skills Division. Course grades are "S",

"U", or "K."

Prerequisites: None. No lab fee charged.

6101 Introduction to Artificial Intelligence -**Expert Systems**

2-2-3

This course presents the concepts central to Artificial Intelligence with emphasis on Expert Systems. Prolog/e is used as a laboratory vehicle to provide first-hand experience with rule-based programming. Backward and forward chaining, breadth-first and depth-first search, confidence factors, heuristics, inference engine, knowledge base, knowledge representation are covered.

Prerequisites: Basic or Cobol, etc. Lab fee charged.

6106 Modular Programming

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

In this course students will be concerned with the procedures and documentation used in developing machine control software systems. Uisng 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 documentel 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 system.

Prerequisites: Some programming exposure. Lab fee charged.

6111 PL/M Programming

2-2-3

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

222

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 stand alone 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

2-2-3

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

2-2-

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.

6135 "C" Programming II

2-2-3

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 learnei 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

2-2-3

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

2-2-3

In this project-oriented class students will develop one or two larger programs. These projects will provide practice with the vasic 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 applied.

Prerequisites: 1137. Lab fee charged.

6611 Chemistry I & Quantitative Analysis

3-3-4

This course is the first of a 3-term sequence in college chemistry. Topics include measurement systems, classifications of matter and energy, chemical reactions and their quantitative relationships. Laboratory techniques are emphasized and include burner and balance use, the handling and transferring of reagents, filtering and gravimetric analysis of samples. Prerequisites: High school chemistry or equivalent and high school algebra or equivalent. Lab fee charged.

6619 Computer Analysis of Laboratory Data I

2-2-3

Examination of the Personal Computer and software as a laboratory tool for technicians. Course begins with introduction to DS (Disk Operating System) and leads into applications programs with emphasis on Lotus 1-2-3 as data analysis package and Labtech Notebook for data acquisition. Much hands-on experience with the PC involved. Other software packages to be examined as well.

Prerequisites: None. Lab fee charged.

6621 Chemistry II & Quantitative Analysis

3-3-4

This course depends on 6611 knowledge and skills. It emphasizes atomic and molecular structure, bonding, intermolecular forces in liquids and solids, dynamic equilibrium, solution chemistry, and acid-base theories. Laboratory techniques stress solution preparation and quantitative volumetric analysis.

Prerequisites: 6611. Lab fee charged.

6629 Industrial Materials Testing 1

3-2-4

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 Chemistry III & Quantitative Analysis

3-3-4

This course compliments the two previous college courses in the sequence. Topics include precipitation chemistry, oxidation-reduction reactions, and descriptive chemistry of the transition elements and carbon compounds. The organic chemistry stresses functional group classification, nomenclature, physical and chemical properties and polymer chemistry, both that of natural and synthetic polymers. The organic laboratory experiments involve separation and purification techniques and synthesis reactions.

Prerequisites: 6621. Lab fee charged.

6639 Fundamentals of Physical Measurement

1/4x3-2-4

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 through computerized data spreadsheets. Basic electricity is taught to the extent that the student can understand the fundamental operation of the laboratory equipment used.

Prerequisites: 6619, 6629, 1192. Lab fee charged.

6641 Instrumental Chemical Analysis

3-3-4

This course emphasizes the instrumentation aspect of chemical analysis of both inorganic and organic compounds. Lab procedures include specific ion analysis using ion selective electrodes, potentiometric titrations, gas chromatography, visible and UV spectrophotometry, infrared spectrophotometry, high performance liquid chromatography.

Prerequisites: 6631. Lab fee charged.

6649 Industrial Materials Testing II

3-2-4

A continuation of the concepts developed in 6629 and 6639. Materials such as concrete, fabrics and paper prolucts 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.

6651 Descriptive Physical Chemistry

3-0-3

This course covers the descriptive chemistry of metals, nonmetals and transition elements. The bonding and structure of molecular and crystalline solids, fibers and other polymers silicates and composites will be studied.

Prerequisites: 6631. No lab fee charged.

6659 Computerized Analysis of Laboratory Data II

3-2-4

Use of electronic spreadsheets to analyze and summarize laboratory data on the microcomputer. Emphasis is on mathematical, statistical, and graphical manipulation of the data using Lotus 1-2-3 in order to check

accuracy of results. Much hands-on experience with computers. No programming language required.

Prerequisites: 1179, 1191, 6619, 6631. Lab fee charged.

6661 Chemical Contaminants in the Environment Characterization of contaminations, sources, dispersions, fate of contami-

nants, effects on human health, environmental quality and examination of exposure limits.

Prerequisites: Basic chemistry or equivalent. No lab fee charged.

6670 Introduction to Statistical Process Control

Practical applications of statistical techniques such as X-R charts for variables 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 this course.

Prerequisites: None. No lab fee charged.

6699 Technical Laboratory Problems Var-Var-1-5 Special problems, projects, seminars and individual study assignments pertinent to technical laboratory areas. Arranged only with approval of

coordinator and dean. Approved for "IP" grade. Prerequisites: None. No lab fee charged. Shood, shooting a slupplom book

6710 Introduction to Lasers

Emission and absorption of photons, elements of the laser, properties of laser light, optical cavities, helium-neno gas lasers, laser classifications and characteristics, introduction to laser safety. Prerequisites/Corequisites: 1172 or 1191. Lab fee charged.

6720 Geometrical and Wave Optics

Geom. Optics: reflection and refraction of light, mirrors, lenses and prisms. Wave Optics: reflection, interference, diffraction and polariza-

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.

5-E-En, nomenclature, physical and cl 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

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

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 3-3-5

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 Project Seminar Individual study and/or special project assigned in students' technical field of study. Available to fourth and fifth term students by special arrangement with coordinator and dean. Prerequisites: None. No lab fee charged.

7000 Engineering Technologies Orientation 1-0-1

Designed to familiarize the engineering student with the operations and policies of the Engineering Division, his career field, employment trends and cooperative employment responsibilities. Topics to include: academic requirements, program option, recommended and nontechnical electives, etc. Required for all incoming freshmen during their first term in school. Waiver of this requirement because of special circumstances such as re-entry students, transfer students, etc. can be obtained from the divisional coordinator of academic affairs.

Prerequisites: None. No lab fee charged.

7001 Computer Concepts

Introduction to computers, including keyboarding, hardware, disk operating systems, basic word processing, elementary programming. Prerequisites: None. No lab fee charged.

7002 Graphic Concepts This course offers preliminary instruction in basic drafting techniques such as line quality, lettering and geometric construction. The primary objective is to prepare students for success in ET 7008 and CET 7024. Prerequisites: None. Lab fee charged.

7003 Engineering Science Concepts

3-0-2

An introductory course to the principles of engineering technology. An overview of the various areas of engineering technology, including units of measurement and basic formula.

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 definel and applied in a logical sequence for each new principle.

Prerequisites: None. Lab fee charged.

7008 Intro to Engineering Drawing 2-3-3

A beginning course which covers the the techniques and functions of drafting. Topics include equipment, lettering, line quality, line types, orthographic projection, sectioning, dimensioning, and fastener hole types either tolerances.

Prerequisites: None. Corequisites: 1171 or 1191. Lab fee charged.

7009 Engineering Graphics (Aviation)

1-4-2

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.

7010 Engineering Drawing I 2-3-3

Emphasis on continued development of drafting skills. Concepts include: secondary auxiliary views, sectioning, class of fit, surface finish designations, tolerancing and welding representations. Course projects will include assembly, sheetmetal, weldment, pattern drawing and bills of material. Stack up analysis and geometric feature control will be introduced.

Prerequisites: 7008. Corequisites: 1192. Lab fee charged.

7012 Engineering Drawing II

A study of the design process as it relates to Mechanical Engineering Technology and related disciplines. Emphasis is placed on working drawings and supporting documentation and selection of commercially available components. Geometric Feature Control and Stack Up analysis are employed in establishing detail specifications which will provide product function at a reduced manufacturing cost (Design for Manufacturability). A major course project requires a complete set of assembly and detail drawings.

Prerequisites: 7010. Corequisites: 7111. Lab fee charged.

7016 Construction Drawing

Emphasis on floor plans, electrical and plumbing layouts, and blueprint reading.

Prerequisites: 7024. Lab fee charged.

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 liagrams.

Prerequisites: None. Lab fee charged.

7023 Architectural Drawing-Residential

Residential Drawings to include: floor plans, section views, building elevations, and typical architechtural details, symbols, abbreviations, and dimensioning methods. Emphasis on developing a set of residential work-

Prerequisites: None. Corequisite: 1171 or 1191. Lab fee charged.

7024 Architectural Drafting I

2-4-4

An open-forum drawing lab will introduce architectural drafting concepts and review the residential construction process. Through the preparation of a set of residential working drawings, the student will learn architectural symbols, details, abbreviations, and dimensioning methods. An emphasis will be placed on residential design and building materials with respect to aesthetics, economics, and their relation to energy efficiency. Prerequisites: None. Lab fee charged.

7025 Survey Drafting

2-3-3

Surveying drafting to include: contour maps from field notes, cross sections, grading plans, deed abstracts and boundary plots. Computer ter-

Prerequisites: 7024, 4910. Corequisites: 1171, 1191 or equivalent. Lab fee charged.

7026 Architectural Drafting II

Architectural related drafting with emphasis on base floor plans and the inclusion of all of the Architectural Mechanical Systems (Heating, Ventilating, Air Conditioning, Electrical, Lighting, and Plumbing). Prerequisites: 7024. Corequisites: 7525. No lab fee charged.

7027 Computer Aided Drafting I (Architectural)

A first course in Architectural Computer Aided Design/Drafting in which the student will become familiar with CAD/D drawing and editing and dimensioning commands and will create architectural and surveying working drawings. Students will also investigate other CAD/D techniques such as block and new definitions.

Prerequisites: 7024, 7035. Corequisites: 1172 or 1191. Lab fee charged.

7028 Computer Aided Drafting II (Architectural) A continuation course in Computer Aided Design/Drafting in which the student will explore some of the advanced features of Architectural drafting on the computer including three-dimensional techniques such as developing utilizing a special symbols library and other customizing tech-

Prerequisites: 7027. 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 terminal to the computer. Output will be produced on terminal and printer. Prerequisites/Corequisites: 1171 or 1191. Lab fee charged.

7031 Computer Programming (FORTRAN)

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) Terminology and basic concepts of automation, introduction to Fortran programming with applications in surveying and construction. Prerequisites/Corequisites: 7920, 2292. No lab fee charged.

7033 Advanced Computer Applications

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.

7034 Computer Applications in MET

3-2-3

A course in software usage and BASIC language programming, with emphasis on word processing, data bases, IBM-DOS manipulation and advanced BASIC (BASICA) programming. Emphasis will be on software usage and programming as it applies to Mechanical Engineering Technol-

Prerequisites: 2291. Corequisites: 1192. Lab fee charged.

7035 Computer Applications 2 graffit and basel A value and 2 3-2-3

Application software usage with emphasis on word processsing, spreadsheets and data bases on microcomputer systems. Prerequisites: None. Lab fee charged.

7036 Technical Computer Programming

The PASCAL computer programming language has gained wide acceptance in industry due to its "structered" control capabilities, simplicity, modularity, and self-documenting code. This course will use PASCAL to write structured technical programs which are directly applicable to both electronic and mechanical problems. The course will cover the basics of the PASCAL language, writing of structured programs, and use of procedures and techniques.

Prerequisites: 1172 or 1191: and 7710 or 7712. 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 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 manuel and NC equipment. Corequistes: 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 classifications. Characteristics and processing of plastics, ceramics, and composite materials are also discussed.

Prerequisites: 7104 or 7416. No lab fee charged.

7124 Manufacturing Process W/CADCAM

Students evaluate a broad variety of manufacturing process capabilities as they relate to finished part configuration and function. High and Low Production processes are reviewed in terms of production cost and process capability to provide end product dimensional control specifications. Conventional, Non-Conventional and Plastics manufacturing processes are explored for their intrinsic capabilities. Computer Numerical Control Equipment is used in an extensive CAD/CAPP/CAM Application. Precision measuring tools are used to evaluate manufacturing process capabili-

Prerequisites: 7008,7160. No lab fee charged.

7130 Engineering Mechanics Charles and Cha

Vector algebra is employed to calculate forces and moments and their effect 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

Fluid transport and power studies of liquid and gas systems, emphasizing hydraulic and pneumatic pumps, compressors, control logic, actuators, motors, reservoirs, safety concerns and piping components. The student will create machine control schematics with ANSI symbols and use pressure, directional and flow control valves in those circuits.

Prerequisites: 1192 and 2292. No lab fee charged.

7133 Industrial Instrumentation

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 or 7722. Corequisites: 7730. No lab fee charged.

7135 Fluid Power Systems

3-2-3

Basic principles of hydraulics and pneumatics. Covers the generation, distribution and control of fulid 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

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.

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.

7141 Kinematics & Dynamics of Machines

A course in the analysis of mechanisms. Mathematical, Computer Aided Design and graphical-calculus solutions, machine kinematics and dynamics. Topics include linear and angular/rotary displacement, velocity, accelertion, work, force, horsepower, harmonic motion, moment of inertia and dynamic balance. Emphasis is placed on piston machines with an introduction to cams and gear trains.

Prerequisites: 2292, 7165. Corequisites: 1193. No lab fee charged.

7142 Mechanisms Analysis & Design

3-2-3

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. In this course, students will complete mechanisms project.

Prerequisites: 1193, 2291, 2292, 7008, 7036, 7104. Corequisites: 1010, 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. Prerequisites: 1191, 7104 or equivalent. Lab fee charged.

7145 Statics & Strength of Materials

3-2-3

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) 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: 7036, 7730, 7738, 7558. Corequisites: 1010, 7142. Lab fee charged.

7148 Applied Thermodynamics

3-2-3

The application of the first and second laws of thermodynamics the energy equation of gases, mollier diagrams, energy utilization and heat transfer. Topics include specific heat, the carnot cycle, entropy, enthalpy and adiabatic processes. System studies include steam generation and turbines, internal combustion engines and mechanical refrigeration. Prerequisites: 2292. Corequisites: 1193. No lab fee charged.

7149 Computer Aided Manufacturing

3-2-3

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. No lab 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: 7034, 7140. No lab fee charged.

7153 Process Control Systems II

3-3-4

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 host system, data highways, multivariable systems and nonlinear sys-

Prerequisites: 7143. No lab fee charged.

7154 CNC Programming II

A continuation of CNC I. Emphasis on more complex problems, including tool libraries, tool offsets, threading. Programming and operating production machines will also be introduced. Prerequisites: 7144. Lab fee charged.

7155 Machine Design II

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 assigned.

Prerequisites: 7150. Corequisites: 7158. No lab fee charged.

7156 Electro-Mechanical Systems

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 electro-mechanical 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.

7157 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: 1024 or 1020, 7146. Corequisite: 1015. Lab fee charged.

7158 Mechanical Systems Design Project

3-2-3

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 emcompassing the entire design, including a product demonstration is required.

Prerequisites: 7150, 7707. Corequisites: 7155. No lab fee charged.

7159 Manufacturing Methods & Cost Control

3-2-3

Starting with a part print, the student learns to select and plan the manufacturing processes and sequence to produce the part, taking into consideration quality, quantity, and cost. To incorporate process engineering techniques.

Prerequisites: 7402, 7113, 7830. No lab fee charged.

7160 Computer Aided Drafting I - Mechnical

This is a hands-on oriented course designed to make the student proficient in the CAD workstation as a productive engineering tool. The couse 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 or is currently taking instruction in engineering drawing. Prerequisites: None. 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 - Mechanical

2-3-3

Continuation of CAD I with emphasis on both wireframe and surfaced 3-D models. Techniques of creating models with oblique surfaces, shading,

and other special CAD features will be covered. Course primarily designed for students in a Mechanical Engineering Technology related

Prerequisites: 7160. Lab fee charged.

7167 Introduction to Robotics I

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

Prerequisites: 7930 or equivalent. Lab fee charged.

7168 Robotics II 2-2-3

Continuation of Course 7167. The course covers robot operations and hands-on programming principles. Includes project work, such as: programming for pick and place operations, palletizing operations, assembly operations, and material handling.

Prerequisites: 7167. 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 analy-

Prerequisites: 7165, 7030. Corequisites: 7140. Lab fee charged.

7199 Special Problems Seminar - Mechanical 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 coordinator and divisional coordinator of academic affairs. Open to fourth and fifth term students by special arrangements with the instructor and program chair.

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, contrainerization, 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.

7411 Processes & Materials of Manufacturing

Designed to acquaint the student with the wide selection of materials, machines and processes available in areas of machining, forming and joining of materials. Computer usage in areas of feeds and speeds, Material selection, tool geometry and machinabilities of materials will be applied to compile and store pertinent data.

Prerequisites: 7111. 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.

7415 Computer Applications for Manufacturing 3-2-3 Computer Applications for Manufacturing and introductory courses to familiarize the student with the personal computer. Application software

including word processing, spreadsheets, and data collection will be introduced. Use of Measuring tools and gages as used in data collection will also be discussed.

Prerequisites: None. No lab fee charged.

7416 Manufacturing Processes & Materials I

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 fo 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.

7417 Manufacturing Processes

3-2-3

Designed to acquaint students with the fundamental principles of fabricating materials. With emphasis on metal removing processes of turning, milling, drilling and grinding. Lasers, edm and other nontraditional processes are covered along with iron and steel castings, dies and cutting

Prerequisites: None. No 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

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.

7427 Tool, Jig and Fixture

Designed to acquaint students with the fundamental principles of tooling, jigs, fixtures and other hardware employed in the manufacture of consumer and industrial goods. With emphasis on cutting tools, tool holders, locating and clamping, fasteners and jig, fixture, gage and die designs. Prerequisites: 7008, 7417 or equivalent.

7428 Computer Aided Drafting II - Manufacturing

A continuation course in computer aided design/drafting in which the student will explore some of the advanced features of bills of material, assembly drawings, detail drawings and geometric tolerancing as they apply to areas of manufacturing.

Prerequisites: 7027, 7424 or equivalent. No 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

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. Issue astidous to asigloning olas

7441 Statistical Process Control

Applications of statistics and probabilities to basic quality control problems with emphasis on variable attribute control charts. Techniques of fishbone and pareto charts alnog with a review of histograms and sampling plans applications to quality prolems. Heavy computer useage in areas of data input and compiling of various charts for studies of results round out the course.

Prerequisites: 1179 or equivalent. No lab fee charged.

7443 Manufacturing Methods & Cost Analysis I

Manufacturing practices and planning procedures are introduced with emphasis on manufacturing analysis, cost estimating, quality and tool design. Additional topics include application of methods and production scheduling control as required in tool manufacturing design.

Prequisites: 7411. No lab fee charged.

7444 Manufacturing Process Planning

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. Prerequisites: 7010, 7144, 7438. Corequisties: 7441. No lab fee charged.

7449 Computer Aided Manufacturing

This course covers the high technology hardware involved with using computers in automated factory. Numerical Control (DNC), Robotics, Flexible Manufacturing Systems (FMS), and other Computer Aided Manufacturing systems are discussed. Computer-Assisted part programming is

Prerequisites: 7415. No lab fee charged.

7450 Production Cost Estimating

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. Estimates are compiled and printed by "costimator" computer systems.

Prerequisites: 7444. No lab fee charged.

7452 Industrial Hygiene Measurements

3-2-3 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.

7453 Manufacturing Methods and Cost Analysis II Implementation of the manufacturing plan with emphasis in areas of detailed parts, assembles, testing and packaging. The part and/or product is processed from its original to finished state by the application of methods, tool and fixture selection, correct sequencing of operations, operation identification and standard time requirements. Prerequisites: 7443. No lab fee charged.

7454 CAD/CAM Project

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.

7455 Statistical Design Analysis

3-2-3 This course presents an introduction to quality engineering (off-line quality control) as it affects production quality engineering. Beginning with a brief review of elementary applied statistics the course moves from onesample to two-sample hypothesis testing to an introduction of analysis of variance (anova). One-way and two-way anova layouts are examined including repetitions, interactions, ect. An introduction to experimental design follows: the approach being that of orthogonal arrays and linear graphs as popularized in Japan by Taguchi. His signal to noise ratio is also explored.

Prerequisites: 1179 or equivalent. No lab fee charged.

7459 Computer Aided Manufacturing II

This course covers the software systems of a totally automated factory. Techniques for attaining optimum utilization of facilities, equipment and other manufacturing resources are covered: Computer Assisted Process Planning (CAPP), Capacity Requirements Planning (CRP), and Material Requirements Planning (MRP) systems are introduced. Prerequisites: 7449. No lab fee charged.

7524 Structural Analysis

3-2-3 Basic principles of architectural structure systems are introduced including space frames, membranes, thin shells and cable structures. The

response of these systems to loading is analyzed theoretically and con-

Prerequisites: 1191,2291. Corequisites: 1192, 2292 No lab fee charged.

7525 Architectural Mechanical Systems I 3-2-3

An introduction to the heating and air conditioning mechanical systems used in conjunction with architectural projects. Topics covered include: terminology, units and conversions, principles of refrigeration, the components of refrigeration systems, Gas Laws, Laws of Thermodynamics, refrigerants, gas and oil burners, and boilers.

Prerequisites: 1191. Corequisites: 7026. No lab fee.

7535 Architectural Mechanical Systems II

A study of Psychrometrics (the properties of the mixture of dry air and water vapor) comfort and health conditions as the relate to desihning the indoor environment, means of heat transfer and heat transmission in common building materials.

Prerequisites: 1192, 7525 No lab fee charged. Annual solidos solidos

7536 Electrical Systems I

3-2-3

An introduction to electricity and electrical circuit analysis. Topics include D.C. circuits, A.C. circuits, single phase systems, three phase systems, switches, relays, transformers and logic and control circuits. Prerequisites: 1192. No lab fee charged.

7537 Piping Systems I

3-2-3

Study of steam, water, refrigerant and pneumatic piping systems, including pumps, compressors, valves, flanges, couplings, controls, traps, vents, piping supports aand insulation. The water piping is as used for condensate, chilled water, cooling water, fire sprinklers and domestic plumbing. Head, friction, erosion, corrosion, water hammer and pipe stress are covered.

Prerequisites: 2292. Corequisites: 1193. No lab fee charged.

7545 Architectural Mechanical Systems III

A study of all of the factors which have an influence on the design of the systems for controlling the indoor environment. Topics include: Earth's motion about the Sun, Time Zones, solar angles and solar radiation, indoor design conditions, outdoor design conditions, calculation the Heat Loss of a structure for heating conditions and calculating the heat gain of a structure for cooling conditions. The structure for cooling conditions in the structure for cooling conditions. Prerequisites: 7535. No lab fee charged.

7546 Electrical Systems II

Fundamentals, applications and selection of single phase and three phase A.C. motors control circuits using relay logic and solid state logic, power circuitry including conductor sizing and protective devices, and applicable provisions of the National Electrical Code. Prerequisites: 1192, 7536. No lab fee charged.

7547 Piping Systems II

Advanced study of piping systems used in building construction. The student will prepare a process and instrument diagram (P&ID) with supporting piping, equipment and control specifications, applying ASA, ANSI and building code standards as appropriate. Pneumatic control circuits including master and submaster thermostats, modulating flow control valves and damper motors are included. The student will also select piping specifications for other services not on the P&ID. An introduction to energy balance diagrams and process flow diagrams is included. Prerequisites: 1193. Corequisites: 2293. No lab fee charged.

7555 Architectural Mechanical Systems IV

A study of control systems and the determination of air quantities required to achieve the indoor environment design parameters as determined from the Heat Gain/Loss calculations. Topics include: theory of control, methods of control, sensors, instruments, air transport and distribution, duct work design, friction and resistance to air flow and methods for calculating these effects. Prerequisites: 7545, 7546. No lab fee charged.

7556 Electrical Systems III

Lighting systems design and electrical distribution design. Covers overcurrent and short circuit protection, conductors and conductor types, grounding, wiring methods, branch circuit design, load calculations and provisions of the National Electrical Code.

Prerequisites: 7546. No lab fee charged.

7557 Architectural Mechanical Systems Design Project 2-3-3

The student will design architectural mechanical systems for a selected building (design) and prepare the required construction drawings and specifications for the mechanical systems.

Prerequisites: 7547. Corequisites: 7555, 7556. 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: Corequisites: 1171 or 1191. No lab fee charged.

7701 Electronic Fundamentals I

4-2-4

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: Corequisites: 1171 or 1191. No lab fee charged.

7702 Electronic Fundamentals II

A continuation of Fundamentals of Electronics I covering basic of AC Circuits, Linear and Digital Electronic Circuits and Microcomputers. Also covered will be oscilloscope use as a measuring device and introduction to Hardware Troubleshooting Techniques.

Prerequisites: 7701, 1191 or 1171. No lab fee charged.

7703 Electrical Troubleshooting

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.

This course is designed for students in a non-electrical degree program. Topics include electrical control components, reading schematic and wiring diagrams, applied electrical basics, electro-magnetism, AC and DC motor characteristics and applications, typical factory power, connecting and checking motors, control and power circuit troubleshooting procedures, logic concepts and programmable controllers. Prerequisites: 1192. No 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: 1192. No lab fee charged.

7710 DC Circuit Analysis

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: Corequisites: 1191 or 1172, 7711. No lab fee charged.

7711 D.C. Circuits Lab

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, VOM's and VTVM's.

Prerequisites: None. Corequisites: 7710. No lab fee charged.

7712 Electrical Circuits I

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, paralles, series-parallel, and complex networks will be covered, with emphasis on applications of these circuits. Classroom lecture and exercises ae supplemented by hands-on circuit projects.

Prerequisites/Corequisites: 1191 or 1172, 7713. Lab fee charged.

7713 Electrical Circuits I Lab

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

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

Prerequisites: None. Coorequisites: 1171 or 1191. No lab fee charged.

7717 Introduction to C Programming 3-2-3

This course is an introduction to the C language. Course covers: variable declarations, variable types, memory considerations, program looping, decision statements, arrays, strings and simple function calls. The Unix editor and compiler will be used throughout the course. Prerequisites: None. Lab fee charged.

7720 AC Circuit Analysis

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. An emphasis in lab will be placed on the oscilloscope, function genrator and V.T.V.M. for application in A.C. circuits.

Prerequisites: 7710, 7711. Corequisites: 1192, 7721. No lab fee charged.

7721 A.C. Circuits Lab

Laboratory exercises, demonstrations, and evaluations in the proper use of techniques and instruments commonly used by technicians in theoryverification and troubleshooting of a.c. circuits. Major emphasis on Oscil-

loscopes, signal generators and VTVM's.

Prerequisites: 7710, 7711. Coorequisites: 7720. No lab fee charged.

7722 Electrical Circuits II

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 Laboratory exeercises 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, threephase systems, and introduction to the National Electric Code. Prerequisites: 7712, 7713 or 7710, 7711. Corequisites: 7722. No lab fee

charged.

7727 Advanced "C" and UNIx " ON bus yoursen bus an This course is a continuation of 7717. Topics include: structured variables, character strings, string function, pointer, bit operations, preprocessor operation, and dish I/O routines. Also included is an introduction to the UNIx operating system.

Prerequisites: 7717. Corequisites: 7738. Lab fee charged.

7728 Introduction to Digital Concepts 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: None. Corequisites: 1191 or 1172; 7710 or 7712. No lab fee charged. 7730 Electronics I 5-

Semiconductor theory, DN junctions, and diodes. Introduction to basic power supply circuits. Operational amplifiers, positive and negative feedback, inverting and non-inverting amplifiers, comparators, differentiators and integrators, instrumentation and bridge amplifiers, active filters, sleu rate limiting, and frequency response.

Prerequisites/Corequisites: 7720, 7721; or 7722, 7723. No lab fee

7733 Electronic Troubleshooting Model bas subst as anything at

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 1996 de la bolt 300 de 1997 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

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 IC's will be discussed.

Prerequisites: 7728. Corequesites: 7720. Lab fee charged.

7740 Electronics II

Rectifier circuits, zener diodes, light emitting diodes, power supply filtering, regulators, clippers and clampers. Bipolar transistor theory, bipolar switch, bipolar biasing circuits. Class A small signal and power amplifiers, class B amplifiers, field effect transistors, FET biasing, FET amplifiers, frequency response of amplifiers.

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

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, Anetnnas, 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 sensorcomputer integration for the purpose of creating intelligent stand alone 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.

4-E-Ering instruments, inductive time or 7748 Digital Systems II

Microprocessor hardware and software for the Motorla 6800 family of chips. Topics include: basic microprocessor hardware, number systems, software architecture, introduction to the 68000 instruction set, addressing modes, suboutlines, educational computer board, system hardware and timing, and memory and I/O expansion techniques. Prerequisites: 7738. Lab fee charged.

7749 Biomedical Instrumentation I 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, hear and circulatory system, electrodes, transducers, bioelectric amplifiers, EKG's, mechanical recorders, ICU's and CCU's, electrical safety, and electro-surgery units.

Prerequisites: 4012, 7730, 7738. No lab fee charged.

7750 Electronics III

Discrete power amplifiers, integrated power amplifiers, SCR's, triacs, and power FET's. Swirhing regulators, integrated circuit filters, and other single chip devices. Modulation techniques, optical devices, phase locked loops, tone encoders, and deloders.

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, specificaitons, estimating procedure, unit pricing, pricing sheets, summary sheets, proposals, checking methods, computerized estimating techniques. Prerequisites: None. No Lab fee charged.

7756 Power Generation & Transmission 3-1-3

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 3-2-3

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 and 7723; or 7720 and 7721. No lab fee charged.

7759 Biomedical Instrumentation II 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 is 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.

7767 Computer Communications 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 communicaitons, 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

Advanced topics on microprocessor hardware and software for the Motorola 6800 family of chips. Topics include assembly language programming, use of vi editor in UNIX, simple parallel expansion, analog-todigital and digital-to-analog conversion, parallel interface timer (PIT) chip, serial I/O, parallel I/O with handshaking, interrupts, and timers. Prerequisites: 7748. No lab fee charged.

7769 Real 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 stand alone systems.

Prerequisites: 7747, 7768. Corequisites: 7757. No lab fee charged.

7799 Special Problems Seminar-Electrical 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 instructor and program chair.

Prerequisites: None. No lab fee charged.

7810 Welding Skills

3-3-4

Basic gas welding. Safe and correct methods of assembling and operating of welding equipment. Introluces 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. One applicate address box notes

7811 Welding Processes & Techniques

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

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: None. Corequisites: 1171 or 1191. No lab fee charged.

7911 Introduction to Construction

2-2-2

Introduces the student to the construction industry analyzing the contractural 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

alevian Alisosto DA 3-0-3

A survey of the construciton industry to include the following topics: management in construction, contracting methods, contracts and specifications, estimating, scheduling, construction methods and materials, blueprint reading, and surveying.

Prerequisites: None. No lab fee charged.

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. "COGO" Computer Program.

Prerequisites: 7910. No lab fee charged.

7930 Route Surveying

4-2-4

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, "COGO Program.". Prerequisites: 7920. Corequisite: 7025. No lab fee charged.

7931 Light Construction

Introduces to the student concepts of residential planning. Investigates construction methods such as platform framing, brick veneer, lightweight steel, and masonry construction. Includes structural member selection, footing design, and typical construction detailing. Presents the dynamics of heat loss and heat gain.

Prerequisites: 1192, 7911. No lab fee charged.

7934 Statics (Civil)

A continuation and application of principles of physics to engineering analysis. Topics of instruction are limited to force analysis applied to civil engineering structures, static friction and centroids and moments of inertia. Course objectives are accomplished through lecture, visual aids, example calculations, literature references, and handouts. Prerequisites: 1192, 2292. 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.

7942 Construction Management I

The student will investigate the evolution of the construction management process and compare this process to the traditional method of general contracting. The student will examine the theoretical and contractural relationship that exists between the construction manager, owner, architect/engineer and prime contractor. The concepts of planning and scheduling are introduced, including CPM scheduling. Prerequisites: None. No lab fee charged.

7943 Construction Estimating

3-2-3

A technical course designed to give the student a confident knowledge of estimating. Various types of construction estimates are discussed in addition to bidding procedures, quantity takeoff of materials, and their relationship to different types of construction contracts. Each student will perform a detailed estimate from a set of working drawings prepared by the student in a previous course. Other topics include feasibility studies, project controls, and time value of money. Prerequisites: 7931. No lab fee charged.

7944 Strength of Materials (Civil) 3-2-3

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, and stress concentration. Course objectives are accomplished through lecture, visual aids, demonstrations, example calculations, case studies, literature references, and extensive handouts.

Prerequisites: 7934, 1191. Corequisites: 7945. No lab fee charged.

7946 Municipal Wastewater Treatment Systems

Introduction to concepts of wastewater treatment and design of waste handling systems for residential lots and subdivisions. Prerequisites: None. Corequisites: 7948.

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 using computer application. Emphasis will be on control of erosion and sedimentation. Course objectives are accomplished through lecture, visual aids, example calculations, literature references, and handouts. Prerequisites: 1191. No lab fee charged.

7948 Subdivision Design I

3-2-3

Introductory course in residential subdivision design with emphasis on general zoning and subdivision regulations; lot, street and easement design using a coordinated geometry computer program.

Prerequisites: 7025, 7930. Corequisites: 7946, 7947. No lab fee

charged.

7950 Surveying Field Project 1-6-3

Specialized project utilizing fundamental theories and standard practices involved in surveying. To include courthouse research, field reconnaissance and measurements, resolution, platting and astronomic observa-

Prerequisites: 7930, 7940. No lab fee charged.

7951 Heavy Construction

Heavy construction includes large commercial buildings, industrial facilities, and highway construction. This course analyzes construction techniques involving heavy timbers, structural steel, reinforced concrete, and combinations thereof. Emphasis is placed on commercial construction from site work and shoring to curtain walls, glazing, and interior finishes. Prerequisites: 7911. No lab fee charged.

7952 Contracts and Specifications 3-0-3

Common usage and practice in law and preparation of contracts and specifications for housing, building construction and engineering services. Examples of actual contracts and specifications relative to A.I.A. and CSI formats.

Prerequisites: None. No lab fee charged.

7953 Construction Management II

The student will continue to study the construction management movement in the constuction industry. Critical Path Method Scheduling is emphasized in this course from network diagramming to the crashing process. Other topics include phasing and work packaging, valve engineering, project controls, labor relations, project management, quality control, and safety management. Prerequisites: 7942. No lab fee charged.

7954 Structural Design II

A course presenting the fundamentals of statics to reinforced concrete design. Topics of instruction include the ACI Strength Method of reinforced concrete design, and an introduction to computer solutions of analysis and design. 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 lectures, example calculations, literature references, laboratory experience, and extensive handouts.

Prerequisites: 7934, 7944, 7945, 1192. No lab fee charged.

7955 Applied Soils Mechanics

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: 7934. No lab fee charged.

7956 Structural Steel Design

An introductory course in which the fundamentals of structural steel design per the AISC code are studied. Topics of instruction include the design of tension members, beam analysis and design, deflection analysis, and column design. Course objectives are accomplished through lectures, visual aids, example calculatoins, and handouts.

Prerequisites: 7934, 7944, 1192. Corequisites: 7954. 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: None. Corequisites: 7947. No lab fee charged.

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 phtotgrammetry control.
Prerequisites: 7930, 1192. No lab fee charged.

7959 Subdivision Design II 3-2-3

Second course in residential subdivision design with emphasis on earthwork calculations; designing of a water system; and labeling of a final plan using "COGO" and "CAD" programs.

Prerequisites: 7947, 7948, 7027. Corequisites: 7955. 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 presentel. 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 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 instructor and program chair. Prerequisites: None. No lab fee charged.

8100 Aircraft Orientation

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-

Prequisites: None. No lab fee charged.

8101 Machine & Hand Tools

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 charts.

Prerequisites: 8100. 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: 8100, 8101. Lab fee charged.

8108 Aircraft Electricity

Repair aircraft electrical system components. Install, check and service airframe electrical wiring, controls, switches, indicators, and protective devices. Clean, inspect and service aircraft batterys. 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

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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 defects.

Prerequisites: 1191, 2221, 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.

8l32 Airframe Electrical & Generating Systems

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 transformers.

Prerequisites: 8102, 8106, 8108. No lab fee charged.

8l40 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.

1-4-2

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.

8l42 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, 8102, 8107. Lab fee charged.

8l43 Airframe Hydraulic & Pneumatic Systems 1-4-2

Repair hydraulic and pneumatic power system components. Inspect, check, service, troubleshoot and repair hydraulic and pneumatic power

Prerequisites: 1191, 2222. No lab fee charged.

Instrumentation, Communication, Navigation

5-5-5

and Utility Systems 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, 8132, 8140, 8143. No lab fee charged.

8151 Airframe Systems, Hydraulic via of bengles beauto

& Pneumatic Landing 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 anit-skid electrical brakes. Controls, landing gear position indicating and warning systems. Prerequisites: 8143. No lab fee charged. A subsystem bas aloutnoo periorg

8l52 Flightline Maintenance

2-4-1 ulsites: 7931. No lab lee charged

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: 1192, 2223, 8140, 8142. Corequisites: 8150, 8151. No lab fee

8l55 Airframe 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 & 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, 2221, 8102. No lab fee charged.

8161 Powerplant Lubrication

4-3-4

Identify and select proper lubricants. Inspect, check, service, troubleshoot and repair powerplants. Prerequisites: 2221, 8102, 8106. Corequisites: 8160. No lab fee charged.

8l62 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.

8170 Powerplant Theory & Maintenance II

Inspect and repair reciprocating engines. Inspect, check service and repair opposed and radial engines and reciprocating engine installations. Prequisites: 8160. No lab fee charged.

8171 Powerplant Fuel Metering Systems I

5-5-5

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: 8108, 8160. No lab fee charged.

8180 Engine Systems & Inspection

5-5-5

Inspect, check, troubleshoot, service and repair engine induction cooling exhaust and electrical systems and components.

Prerequisites: 8101, 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: 8108, 8170. Corequisites: 8183. No lab fee charged.

8183 Powerplant Theory & Maintenance III

Install, troubleshoot and remove reciprocating engines. Overhaul turbine engines, inspect, check, service and repair turbine engine installations. Remove, install and troubleshoot turbine engines.

Prerequisites: 1192, 2223, 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.

8580 Residential Wiring

2-2-4

The course covers basic house wiring fundamental electrical concepts, practical Ohm's law, residential sections of national electrical code, basic circuitry layout for lights, switches, receptacles, and equipment. Also provides rudimentary understanding of circuit loading, service entrance calculations, and basic hands-on skills needed to install electrical components and devices.

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

Are you afraid of failure; are you unsure about your career and personal goals; are you concerned about the adequacy of you 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.

9010 Nontraditional Careers for Women

The course is designed to meet the special needs of women, including single parents and homemakers who are searching for better paying jobs in male-dominated or nontraditional professions. Traditionally, men and women have selected specific careers based on socially defined traits. The student will acquire skills needed to overcome stereotypical barriers which prevent them from entering well paid nontraditional careers. Emphasis on overcoming Math/Science anxiety, how to study Math, Nontraditional career exploration reducing the home/career conflict. Prerequisites: None. No lab fee charged.

9200 Professional Practices

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

1-40-3

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

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Usually on an alternating term basis, the business student is placed on a full-time (32-40) job that ileally relates to his or her class work. This affords the student the opportunity to make practical application of the knowledge and skills acquirel in his or her class work. With each succeeding coop 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

Usually on an alternating term basis, the business student is placel 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.

semvoland svitstage 0 1-40-2 9204 Cooperative Employment 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 acquirel 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

1-40-2 cooperative Employment

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.

9300 Cooperative Employment/Health Technologies 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.

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 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 acquirel 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 credit.

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 requirel to earn co-op credit.

Prerequisites: None. No lab fee charged.

9305 Cooperative Employment 1-40-2

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.

9400 Co-op 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.

9401 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.

9402 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.

9403 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.

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.

1-40-3 9501 Cooperative Employment 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 learnel 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.

9503 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.

9504 Cooperative Employment 1-40-2

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.

9600 Physical Science and Mathematics Division Cooperative Employment

1-40-2

Usually on an alternating term basis, the 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 Science Technology Division co-op policies and procedures required to earn credit. Approved for "IP", "S" and "U" grades.

Prerequisites: None. No lab fee charged.

9601 Cooperative Employment

Physical Science/Mathematics Division 1-40-3

Usually on an alternating term basis, the 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 Science Technology Division co-op policies and procedures required to earn credit.

Prerequisites: None. No lab fee charged.

9602 Cooperative Employment

Physical Science/Mathematics Division

-40-3

Usually on an alternating term basis, the 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 Science Technology Division co-op policies and procedures required to earn credit.

Prerequisites: None. No lab fee charged.

603 Cooperative Employment

Physical Science/Mathematics Division

1-40-3

Usually on an alternating term basis, the 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 the added knowledge and skills acquired in each school term. Adherence to Science Technology Division co-op policies and procedures required to earn credit.

Prerequisites: None. No lab fee charged.

9604 Cooperative Employment

Physical Science/Mathematics Division

Usually on an alternating term basis, the 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 Science Technology Division co-op policies and procedures required to earn credit. Prerequisites: None. No lab fee charged.

9605 Cooperative Employment

Physical Science/Mathematics Division

1-40-2

1-40-2

Usually on an alternating term basis, the 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 ter. Adherence to Science Technology Division co-op policies and procedures required to earn credit.

Prerequisites: None. No lab fee charged.

9701 Cooperative Employment/ Communication Skills Division

1-40-3

The Technical Writing & Editing Technology student is placed on a job that provides the opportunity to apply knowledge and skills acquired in classes. Job assignments may be either part-time (20 to 32 hours per week) for two consecutive terms or full-time (32 to 40 hours per week) for one term. The student must adhere to Communication Skills Division coop policies and procedures to earn credit.

Prerequisites: None. No lab fee charged.

9702 Cooperative Employment/ Communication Skills Division

1-40-3

The Technical Writing & Editing Technology student is placed on a job that provides the opportunity to apply knowledge and skills acquired in classes. Job assignments may be either part-time (20 to 32 hours per week) for two consecutive terms or full-time (32 to 40 hours per week) for one term. The student must adhere to Communication Skills Division coop policies and procedures to earn credit.

Prerequisites: None. No lab fee charged.

9703 Cooperative Employment/

Communication Skills Division 1

The Technical Writing & Editing Technology student is placed on a job that provides the opportunity to apply knowledge and skills acquired in classes. Job assignments may be either part-time (20 to 32 hours per week) for two consecutive terms or full-time (32 to 40 hours per week) for one term. The student must adhere to Communication Skills Division coop policies and procedures to earn credit.

Prerequisites: None. No lab fee charged.

Cooperative Employment/

Communication Skills Division 1-40-2

The Technical Writing & Editing Technology student is placed on a job that provides the opportunity to apply knowledge and skills acquired in classes. Job assignments may be either part-time (20 to 32 hours per

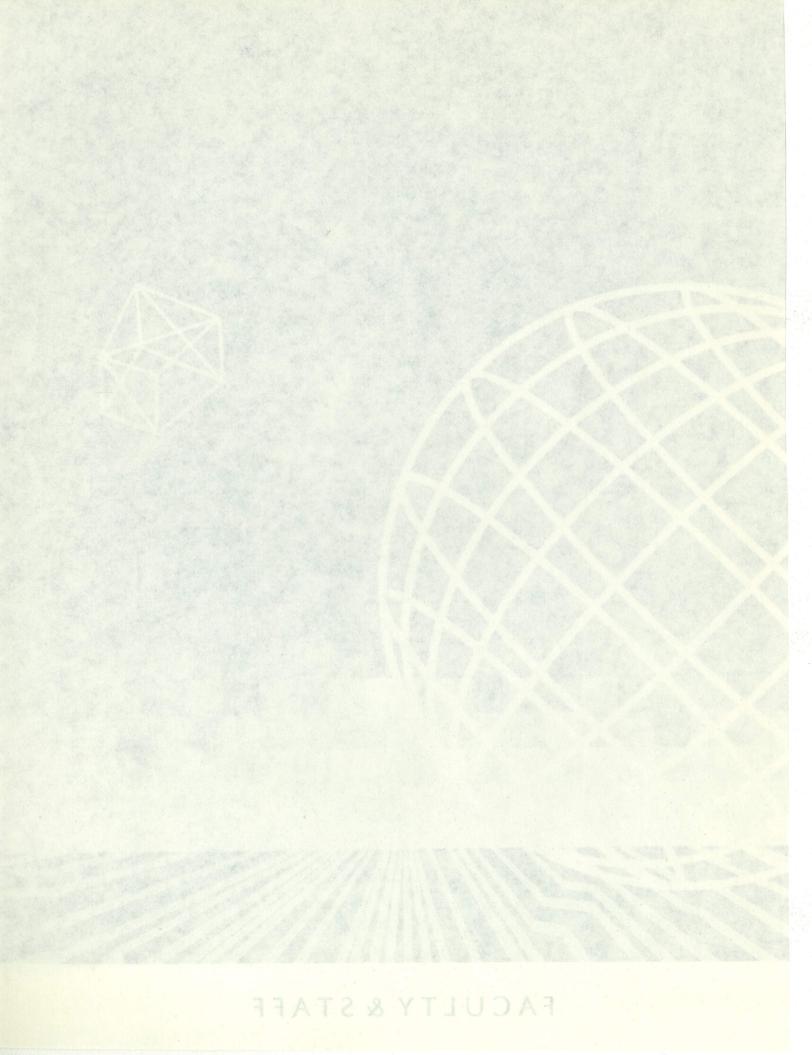
week) for two consecutive terms or full-time (32 to 40 hours per week) for one term. The student must adhere to Communication Skills Division coop policies and procedures to earn credit.

Prerequisites: None. No lab fee charged. Molass bas yallidanogasi soon

what he or she has learned from the previous term(s) of employment and the added knowledge and skills acquired in each school term. Purticipa-



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| A.B., Xavier University Itannian Dio viting visu (A.B. M.Ed., Xavier University A.B. A.B. M.Ed., Xavier University (A.B. M.E | B.S., Ohio Northern University |
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| B.S., University of Cincinnati M. Ed., University of Cincinnati | M.Ed., University of Cincinnation of the baselston, ball-lim |
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| B.S., University of Cincinnati | St. Francis-St. George Hospital |
| Davidson, Ronald A., M.T.(ASCP) | Ellis, Patrick |
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| B. Ed., Miami University Ennis, ConstanceAdjunct Instructor, Physical Sciences/ | A.A.S., Ohio College of Applied Science |
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| Respiratory Therapy Program | B.S., Clarkson College |
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| B.S., University of Cincinnati | M.Ed. Yavier University |
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| B.S., Clemson University | B.A., St. Mary of the Woods College |
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| B.S., Xavier University | Engineering Technologies Division |
| M.Ed., Xavier University | Hils, Neal CInstructor, |
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| B.S., University of Cincinnati | B.S., Ball State University Provided Synapsish material Season, 2.8 |
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| B.S., University of Cincinnati | B.Ed., Capital University |
| M.S., University of Cincinnati Instancioni Dia vita evia U 2. M | Kobberdahl, C.E |
| A.S.Q.C. Certified Quality Engineer | Istigach young to you JauO Business Technologies Division |
| Hunley-Belanger, Marcha Instructor, Communication Skills/ | B.S., University of North Dakota |
| Social Sciences Division | M.Ed., University of Cincinnati |
| B.S.Ed., University of Cincinnati | Kober, Thomas E |
| M.A.I.R., University of Cincinnati | B.A. Fadhara Callagain D Health Technologies Division |
| Huwel, William | B.A., Earlham College |
| Business Technologies Division | M.S., University of Cincinnati |
| M.B.A., Xavier University | Ph.D., University of Cincinnati |
| lacobucci, Frank AProfessor Emeritus, Physical Sciences/ | Koester, NorbertAdjunct Instructor, Physical Sciences/ |
| Mathematics Division B.S., United States Military Academy | A.A.S., Ohio College of Applied Science (O.M.I.) |
| M. Ed. Yavior University | B.S., University of Cincinnati its nation 2 to yiers virtue. |
| M.Ed., Xavier University Jackson, JoanInstructor, Physical Sciences/ | Kraus, Stephen, M.T. (ASCP) Adjunct Clinical Instructor, |
| Mathematics Division | authema rosselor9 Medical Laboratory Technician Program |
| A.B., DePauw University (Installed State Organical State Organ | noisivi Carigological gaineering Dearborn County Hospital, IN |
| M.Ed., Virginia Commonwealth University and analysis and all M. | B.S., Eastern Kentucky University Villagorial 91612 old V.2.8 |
| James, CarolAdjunct Faculty | Krismer, Marianne, R.DProgram Director, |
| Developmental Education | Health Technologies Division |
| A.B., Morehead State University (spindos) (Isomonia) 2.2.A.A. | B.S., Edgecliff College and all |
| James, Judd H., CMfgEProgram Chair, | M.Ed., University of Cincinnati VisasvinU normal) 3.8.8 |
| Engineering Technologies Division | R.D., University of Cincinnati General Hospital |
| B.S.M.E., University of Cincinnati Jonas, Charles E | Kuehn, Irvin C |
| Jonas, Charles E | Business Technologies Division |
| Engineering Technologies Division | B.S., Eastern Kentucky University and Clarify to View Market University and Clarify and Company of the Company |

| M.A., Eastern Kentucky University Laemmle, Carolyn G., M.T. (ASCP), C.L.S Program Director, | Marcotte, Susan |
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| Health Technologies Division | B.S., University of Cincinnati & dalast oliday to studied levos |
| B.A., Edgecliff College ### ############################## | B.S.Ed., University of Cincinnations of the moint of the second of the s |
| M.T. (ASCP), St. Mary's Memorial Hospital School of Medical | M.A., University of Cincinnati |
| Technology | Marsh, Ellen, RRAAdjunct Clinical Instructor, |
| M.S., College of Mt. St. Joseph | Medical Record Program |
| Lalley, JohnInstructor, Physical Sciences/ | lewish Hospital |
| Mathematics Division | B.S., Eastern Kentucky University |
| B.S., Thomas More College | Martin, JohnAdjunct Faculty, Physical Sciences/ |
| Lamey, Robert W | B.S., Xavier University |
| Engineering Technologies Division | B.S., Xavier University |
| A.A.S., Cincinnati Technical College | M.S., Ph.D., University of Cincinnati Maschinot, Nancy, R.R.T |
| B.S., University of Cincinnati | Health Technologies Division |
| Student Services Division | A.S.S., Cincinnati Technical College and To visite sying about |
| A.A.S., Northwood Institute | Matillar, PatAdjunct Clinical Instructor, |
| B.S.B.A., Xavier University Leicht, Albert G | noiativi Dietetics Program Dietetics Program |
| Leicht, Albert G | Cincinnati Health Department |
| Business Technologies Division | B.S., Purdue University |
| B.S., West Virginia Institute of Technology | M.S., Purdue University |
| M.S., South Dakota State University | McDannold, Cathy, R.R.AAdjunct Clinical Instructor, |
| Leinginger, DonaldAdjunct Instructor, Physical Sciences/ | Applied Record Program St. Elizabeth Medical Center |
| Mathematics Division | \allow \lambda \text{lizabeth Medical Center} |
| B.S.M.E., University of Cincinnati and I seed based on the Cincinnation of Cin | McDermott, Tim, R.N Adjunct Clinical Instructor, |
| Lepp, Candace, R.R.AAdjunct Clinical Instructor, | Surgical Technology Program |
| Medical Record Program Providence Hospital | St. Elizabeth's Medical Center-North McFerrin, Lela, R.R.A |
| B.A., Ohio State University | egolio Isan Medical Record Program |
| Levy, Liliane | Meanword volum The Christ Hospital |
| Health Technologies Division | B.A., Southwestern Memphis Manager Distribution Communication Communicat |
| Ed.D., Berkendael, Brussels Belgium | B.S., University of Tennessee |
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| Health Technologies Division | Medical Record Program |
| Libis, Joseph, Jr Adjunct Instructor, Communication Skills/ | Glen Manor Home for the Jewish Aged |
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| B.S., Xavier University | McLain, Robert, P.EInstructor |
| M.Ed., Xavier University Lieberman, Hope | Engineering Technologies Division |
| Developmental Education | B.S.E.E., University of Cincinnati M.B.A., University of Cincinnati |
| B S Wright State University | Mellinger, Daniel OInstructor, Communication Skills/ |
| B.S., Wright State University M.Ed., University of Cincinnati | noisiviC Mathematics Division |
| Lierl, Debbie, R.R.T | A.B., University of Tennessee Spello D StoM asmortT R.A. |
| notaivita abigolomboli anii aaniigadi Respiratory Therapy Program | M.Ed., University of Cincinnati |
| Health Technologies Division | Meyer, Don J., CMfgE |
| B.S., University of Cincinnati decidental to yologovinu .A.B.M | notativi Classical Regimeering Technologies Division |
| Liette, Beth, R.R.AAdjunct Clinical Instructor, | B.S., University of Cincinnation of Cincinnati |
| Medical Record Program | Miller, TomCoordinator, |
| B.S., Indiana University Link, DennisAdjunct Instructor, Physical Sciences/ | noisivial esisolondosi zeonizuli Business Technologies Division |
| Mathematics Division | B.S., West Virginia Institute of Technology |
| B.A., University of Cincinnati | Mindhardt, Katye L |
| Littell, Timothy LInstructor, | Business Technologies Division |
| Business Technologies Division | A.A.B., University of Cincinnati |
| A.A.S., Cincinnati Bible College | B.S., University of Cincinnati to looded reugal appeal |
| Lower, Joe RProfessor Emeritus, | M.Ed., University of Cincinnati |
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| B.S., Ohio State University | Mathematics Division |
| M.A., Ohio State University Macke, James | B.S., East Tennessee State University |
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| Business Technologies Division B.S., Xavier University | Morgan, Bonnie, ARTAdjunct Clinical Instructor, |
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| M.B.A., Xavier University | noisivia asigologidosi aa Ft. Hamilton-Hughes Memorial Hospital |
| M.B.A., Xavier University Mains, Keith GInstructor, | A.A.S., Cincinnati Technical College and to viscovinuA.A. |
| Business Technologies Division | Mullins, Billy DInstructor, |
| Certification, Northern Kentucky University | Engineering Technologies Division |
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| B.S., Indiana State University M.Ed., University of Cincinnati | B.S., Xavier University Myatt, James F |
| Ed.D., University of Cincinnati | Business Technologies Division |
| zaisi, onversity of Circumati | Dusiness lectinologies Division |

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| Chef Patissiere, Union of Lancashire & Cheshire Institute | B.S., University of Cincinnati |
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| Newbold, Thomas | B.E., University of Cincinnati |
| Engineering Technologies Division | M.A.T. in Mathematics, University of Cincinnati |
| A.S., University of Cincinnati | Proffitt, Herbert Adjunct Instructor, Physical Sciences/ |
| B.S., University of Cincinnati | entillA energeteV aotsnibrooD Mathematics Division |
| M.Ed., University of Cincinnation (Science Planting Additional Control of Cincinnation (Science Planting Control o | B.S., Cumberland College |
| Nicholson, WilliamAdjunct Instructor, Physical Sciences/ Mathematics Division | M.A., Union College Stuffen Boowmood, E.A.A. |
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| Nichey, Wilma Jean, ARTAdjunct Clinical Instructor, | Mathematics Division |
| Madical Pacard Program | B.S., Xavier University Sondool To etail an artist and a state of the |
| obsessed lesial Stanish Assault Alas Mari Holmes Hospital | M.Ed., Xavier University Wienevin United States Online 2. A.M. |
| A.A.S., Cincinnati Technical College | Pursley, PhilipAdjunct Instructor, Physical Sciences/ |
| Nolan, Timothy DInstructor, Communication Skills/ | Mathematics Division |
| Social Sciences Division | B.S., Morehead State University (2012) by Manager U.S. M.Z. 8 |
| A.B., Xavier University | M.Ed., University of Cincinnati |
| Norton, Jude, PA, CST | Raffignone, April, R.R.AAdjunct Clinical Instructor, |
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| O'Malley, JaneAdjunct Clinical Instructor, | A.B., Miami University mula alasand Jashania (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. |
| Medical Records Program | M.A., Miami University |
| Fairfield Center | Rauch, Terrence J |
| A.A.S., Cincinnati Technical College | Valible notissinummo potour Engineering Technologies Division |
| Otchere, Baffour AAdjunct Instructor, Physical Sciences/ | A.A.S., Cincinnati Technical College |
| Mathematics Division | Raymond, Robert |
| Diploma B.Ed., Technical Teachers College - Ghana B.G.S., Xavier University | Engineering Technologies Division Reardon, Martin Adjunct Instructor, Communication Skills/ |
| M.B.A., Xavier University | Social Sciences Division |
| Otten, Thomas Adjunct Instructor, Physical Sciences/ | B.S., Xavier University |
| Mathematics Division | M.Ed., Xavier University Itanniani D to ytiggevinU , bd.M |
| A.B., Thomas More College | Rhein, William GProfessor Emeritus, |
| M.Ed., Xavier University (Itanicania) to valential U.b.3.M | mangor9 yeared Tyrotaniques Engineering Technologies Division |
| Owsley, Louis E | B.S.I.M., University of Cincinnati |
| Business Technologies Division | M.B.A., University of Cincinnati Ilamioni Dio vilingvinu 2.8 |
| B.S., Xavier University Membra 3 to yillers viru 2.8 | Richard, Janette, R.R.A |
| M.Ed., University of Cincinnati | Health Technologies Division B.S., Ohio State University |
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| B.A., University of Cincinnati | |
| M.Ed., Xavier University | B.S., Xavier University Itanniania to wherevingA. 8 |
| M.Ed., Xavier University Perry, Frances, R.N | Social Sciences Division B.S., Xavier University Rieck, Alyce G |
| Health Technologies Division | Social Sciences Division |
| R.N., Georgia Baptist School of Nursing Continued and Continued Co | A.B., San Diego State University 160 eld 18 isomismo . 2 A.K |
| Peter, TimothyAdjunct Instructor, Communication Skills/ | M.Ed., University of Cincinnati |
| Social Sciences Division | Rinck, H. Anthony |
| B.A., Otterbein College M.Ed., Xavier University | B. S. Yavior University |
| Petitto, Diana, R.NAdjunct Clinical Instructor, | B.S., Xavier University write and Jacob A.M. Ed., Xavier University |
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| Clermont Mercy Hospital | Health Technologies Division |
| Phillips, Verale W., CDPCoordinator, | |
| Business Technologies Division | A.A., University of Cincinnati B.S., University of Cincinnati Wileywin University A. 8. M. |
| A.A., University of Cincinnati and advantage in a minimum and a second a second and | Romano, Robert |
| B.S., University of Cincinnati | noist of a significant services. Engineering Technologies Division |
| M.B.A., Xavier University | B.S.E.E., Ohio State University and method method method and source of the Advisor of the Adviso |
| Certificate, Data Processing, Institute for Certification of | Rosa, Effie M J.T.P.A. Couselor/Advisor |
| Computer Professionals Computer Professionals | Developmental Education B.S., Miami University |
| Certificate Data Education Confidentian Council | |
| Certificate, Data Education, Certification Council Phillips-Estes, Joanne | M.Ed., University of Cincinnati |
| Certificate, Data Education, Certification Council Phillips-Estes, Joanne | M.Ed., University of Cincinnati Cherry and State Special Control of Cincinnati Cherry and State Special Control of Cincinnati Cherry and Cherry |

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| B.S. University of Cincinnati | M.S.E.E., University of Cincinnation and the second |
| M.A. Northern Kentucky University Ruoff, Sandy, CPA | Ph. D., University of Cincinnati Shepard, JohnAdjunct Instructor, Physical Sciences/ |
| Business Technologies Division | Mathematics Division |
| B.B.A., University of Cincinnati Rowe, AtronAdjunct Instructor, Physical Sciences | B.S., University of Cincinnati M.A., University of Cincinnati |
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| M.S., North Carolina State Rupp, Rodney | Simons, Sandy, R.N |
| Mathematics Division | Surgical Technology Program |
| B.S., University of Cincinnati B.Ed., University of Cincinnati | Sketch, Gregory, P.S. Bethesda North Hospital Sketch, Gregory, P.S. Program Chair, |
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| Sanders, RobertAdjunct Instructor, Physical Sciences/ | B.S.S., Ohio State University |
| B.S., Ohio State University Mathematics Division | Smith, Donna, R.N |
| M.A., Ohio State University (Io) Issued of Hammon D. & A.A. | Fort Hamilton Hughes Medical Center |
| M.S., University of New Hampshire Saunders, Harriet, M.T.(ASCP) Adjunct Clinical Instructor, | Smith, Gail, ART |
| Medical Laboratory Program | A.A., Fastern Kentucky University Vilagovin U oirlO2.8 |
| Deaconess Hospital | Smith, Swanya d'Andre |
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| Medical Record Program Mother Margaret Hall | A.M.T., U.S. Army Medical Service School |
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| Business Technologies Division A.A.B., Cincinnati Technical College | Spraley, Judith, A., R.N |
| B B A University of Cincinnati | B.S.N., Mount St. Joseph College |
| Schaller, Roger N | M.Ed., University of Cincinnati Sprinkle, Russell |
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| B.S., State University of Wisconsin Schlueter, Ralph C | N.I.A.S.E. Certification Stark, Thomas J |
| Physical Sciences/Mathematics Division | Mathematics Division & Communication Skills/ |
| B.S., Xavier University M.Ed., Xavier University | Communication Skills/ Social Sciences Division |
| Schmid, James E Co-op Coordinator & Program Chair, | B.S., Xavier University |
| Engineering Technologies Division B.S., Embry Riddle Aeronautical University | M.Ed., Xavier University Steele, Dewey, ART |
| A&P License, Alabama Aviational Technical College | Medical Record Program |
| M.Ed., Xavier University Schmidt, Ronald, M.T. (ASCP) Adjunct Instructor, Physical | Steidley, V. Kenneth |
| Sciences/Mathematics Division | noteivial abitemental Engineering Technologies Division |
| A.A.S., Alfred State Technical College B.A., University of Buffalo | B.S., Northeast Missouri State University Stewart, Briggetta E |
| M.A., Central Michigan University | Business Technologies Division |
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| B.S.E.E., University of Cincinnati | Security Stewart, Sheryl |
| Schwegman, Charlene, R.NAdjunct Clinical Instructor, Medical Record Program | Business Technologies Division |
| McCullough-Hyde Hospital | B.A., Thomas More College Stock, William |
| B.A., College of St. Francis, Illinois Scott, Sandra, R.D | Business Technologies Division |
| noisiviClasisolondool assilabil Dietetics Program | A A B Cincinnati Technical College vita svin Umsi M. A. B |
| Clifton Care Center B.S., University of Cincinnati | A.A.S., Cincinnati Technical College B.S., University of Cincinnati |
| R.D., University of Cincinnati | Certified Food and Beverage Executive, Educational Institute of |
| Sefton, J. Richard | American Hotel & Motel Association |
| B.S., University of Cincinnati Manniami Dia glianevin U., 2.M | Certified Culinary Educator, American Culinary Federation |
| M.Ed., University of Cincinnati Seyed, ShawramAdjunct Instructor, Physical Sciences/ | Certified Executive Chef, American Culinary Federation Stoll, Kenneth V |
| Mathematics Division | noizoviCl esignionidae ezon el Engineering Technologies Division |

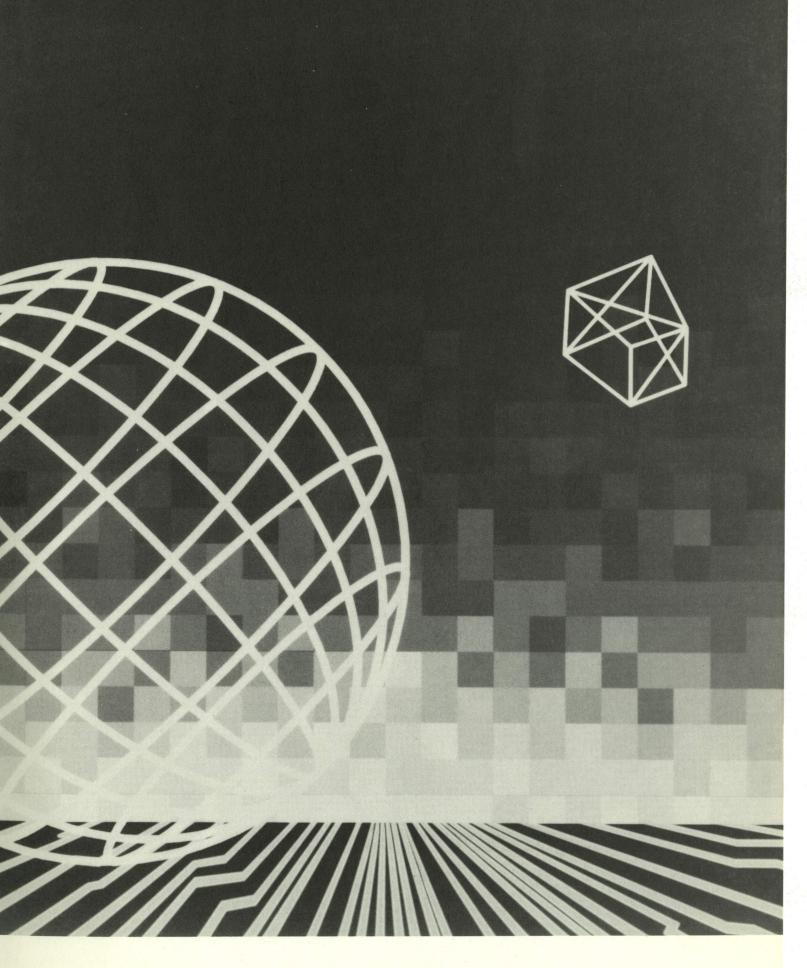
| B.S., Miami University | A.A.B., Cincinnati Technical College |
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| M.Ed., University of Cincinnati | B.S., Xavier University |
| Stormer, Thomas, R.R.TCoordinator/Instructor, | B.S., Xavier University von Kampen, Karl N |
| Health Technologies Division | Business Technologies Division |
| A.A.S., Sinclair Community College | Certified Master Automotive Technician |
| B.S., University of Cincinnati Stratton, Beverly, ARTAdjunct Clinical Instructor, | B.S., Bradley University M.S., Bradley University |
| Medical Record Program | M.S., Bradley University |
| Jewish Hospital | Walston, Cathy, RRTAdjunct Clinical Instructor, |
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| Health Technologies Division | Walters, Nancy L., M.T. (ASCP), CMACoordinator, |
| B.S.M.T., University of Cincinnati | Health Technologies Division |
| M.T.(ASCP), Cincinnati General Hospital School of Medical | A.B., Lindenwood College Walton, GaryCoordinator, |
| Technology 2.4 mogent massis | Walton, Gary |
| M.Ed., University of Cincinnati Ed.D., University of Cincinnati | Business Technologies Division |
| Suer, KennethAdjunct Instructor, Communication Skills/ | A.A.B., Cincinnati Technical College |
| Social Sciences Division | B.S., University of Cincinnati Ward, Beverly, ARTClinical Adjunct Instructor, |
| A.A., University of Cincinnati | noisiviCl spitomertial Medical Record Program |
| B.S.Ed., University of Cincinnati | Clermont Mercy Hospital |
| M.Ed., Xavier University | A.A.S., Cincinnati Technical College and wind and oid O. A.M. |
| Sulek, Carl E | Watts, Olivia, R.NProgram Director, |
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| M.Ed., University of Cincinnati | Weaver, Phyllis, R.R.TAdjunct Clinical Instructor, |
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| Business Technologies Division | Rethesda Hospital |
| B.S., Miami University | B.S., University of Cincinnati Webster, Gary M |
| Certified Systems Professional, Association for Systems | Webster, Gary M |
| Management Sunderhaus, EdwardInstructor, Physical Sciences/ | Engineering Technologies Division |
| Mathematics Division | B.S.E.E., Ohio State University Weichold, Edward |
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| A.A.S., Eastern Kentucky University | Weitmarschen, Jeanne, ART, CTR Adjunct Clinical Instructor, Medical Record Program Good Samaritan Hospital |
| B.S., University of Cincinnati | Good Samaritan Hospital |
| B.S., University of Cincinnati Taylor, Cindy, R.R.A | A.A.S., Cincinnati Technical College |
| & notable Classification Medical Record Program | White, SharonCoordinator, |
| Providence Hospital | Business Technologies Division |
| B.S., Eastern Kentucky University Thomas, Jerri | B.A., Fisk University A.P.A. Vavier Livingsity A.P.A. Vavier Livingsity |
| Engineering Technologies Division | M.B.A., Xavier University Wiebe, Harold, P.E |
| A.A.S., Northern Kentucky University | Engineering Technologies Division |
| B.S., Northern Kentucky University | B.S.E.E., University of Cincinnati Island amedal A. penebul 1884 |
| M.Ed., University of Cincinnati | M.S.E.E., University of Cincinnati |
| Tulloss, William S Instructor, Physical Sciences/ | Wilder, Tim, R.R.TAdjunct Clinical Instructor, |
| Mathematics Division B.E.E., Ohio State University | moisivici zonematics (Nestination Program |
| M.S.E.E., Ohio State University | B.S., University of Cincinnati |
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| Umbaugh, Sharon SAdjunct Instructor, Communication | M.S., Purdue University and M.S. Purdue University |
| notal viO zelpototurost zeonauti Skills/Social Sciences | Wilson, CorneliusCoordinator, |
| B.A., Miami University applied desimilation learning at A.A. | Business Technologies Division |
| Van Camp, Clayton, MProfessor Emeritus, | B.A., University of Cincinnati |
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| R.D., Michael Ries Hospital | Tremitchel Wright |
| B.S., Incarnate Word College Wolfer, Katherine, R.N | Computer Engineering Technology |
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| B.S., Xavier University M.D., University of Cincinnation Physiological Control of Cincinnation Physiological Control of Cincinnation Physiological Control of Cincinnation Physiological Control of Cincinnation Physiol | Robert Snelling |
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| Mathematics Division | St. Phyllis Angerer Cliftop Care Center |
| B.S.M.E., University of Cincinnati | Biomedical Electronics Technology Christ Hospital |
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| Medical Laboratory Program | Business Management Mike Barker |
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| B.S., University of Cincinnati | Marilyn Curliss |
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| Engineering Technologies Division | Thomas HagedornDean Witter Reynolds |
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| M.S.M.E., University of Cincinnati | Paul ImwalleFederal Home Loan Bank |
| Ziegel, Kim TInstructor, Communication Skills/ | Lisa Savicki |
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| B.A., Columbia University M.A., Indiana University | Chef oH abzertes Overberg Beinesda Hofen |
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| M.Ph., Yale University | Greg Calderwood |
| Ziegler, Immanuel Professor Emeritus, Physical Sciences/ | George Haidon |
| Mathematics Division | L. Levalle |
| Ziegler, Lawrence JInstructor, Communication Skills/ | Mary Kay Lowell, R.D Et. Elizabeth Hospital South |
| Social Sciences Division | P. Nuller |
| B.A., Mount St. Mary Seminary B.S., Mount St. Mary Seminary | Cheryl Schazman |
| - in it is a second of the sec | Lance Stumpf |
| M.Ed., Xavier University | Larry Moster |
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| | David Cox |
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| Betty Richard Citizens Committee On Youth | Ralph Palmer Clermont County Engineer |
| Willie F. WhiteMicro Mechanical Finishing Co. | Bud Payne |
| | James Viox |
| Associate Individualized Study-Engineering | William Viox |
| Lee Grant International Business Machine | Jim Headrick |
| Helen Lucille Habig Archdicese of Cincinnati | Computer Information Systems Programming |
| Barbara Link | Phillip Adams |
| Dr. Jim Marcotte | Chuck Kaseman |
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| David Lee | Geriatrics Technology |
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| Wayne McDonough Frisch's Inc. | Laurie Brandt |
| Norm MyersApplied Facsimile | Barbara Bussman |
| | Dai Dai a dussinai |
| Gustave Neuss | Dot Christenson |
| James Repasky | Bill Ciferri |
| Howard Witsken | Sr. Brenda Hilger St. Theresa Home |
| Tramilichel Wright Proceeds Camble | Dr. Geraldine Kaminski |
| Computer Engineering Technology | 5. Usana Karimiski |
| Computer Engineering technology | Fr. Herman Kenning Archdiocese of Cincinnati |
| Bob BaumannSDRC | Dr. Thomas Kober |
| George BeineMDDC | Betty Malloy |
| Bruce Corso | Elizabeth Miller Ph.DHighland Professional Building |
| David Gilchrist | Franklin Mathematical Character Char |
| David Gilcinist | Franklin Nathan Clovernook Nursing Home |
| Mark ShiefferZonic Corporation | Jude Norton |
| | Fred VoelkelBethesda Scarlett Oak Retire |
| Data Communications | Judith Vogel |
| Carl Bartels | Lies Weber 2000 A Land Alanda Market and Alanda |
| Dial Parana | Lisa Weber |
| Rick Berens | Lynn Zirkes |
| Jerry Carrico | |
| Les ClarkGeneral Electric Company | Graphic Communications/Flexography Communications |
| Steve Gutter | Dave Chadwick |
| | Par Detteran |
| Holly Hanson | Ron DettmerPrinting Ind. Assoc. of Ohio |
| Dave Himes | Ed Kobman |
| Sue Iacobucci | Fred Manning |
| | Paul Riedel |
| Paul Inderhees | |
| Joe KohlTurner Construction Company | Ron SchlenskerSidney Printing |
| Vic Ricketts | Susan Verrell |
| | James Wermes |
| Lyle Warfield Community Mutual Insurance Co. | Debent Zeelees |
| | Robert Zschau |
| Dietetics Technology | Wunderlich, William Adjunct Instructor, Physical Sciences/ |
| Sr. Phyllis Angerer | Health Unit Coordinator Technology |
| lane Cille P. D. | Virginia BlockerBethesda North Hospital |
| Jane Gills, R.D. | Pocotto Hull |
| Susan Groeschen, D.TSt. Lukes Hospital | Rosetta Hull |
| Wilma Kiser | Barbara Jenkins |
| Kathleen Maehler, R.D Jewish Hospital | Liliane Levy |
| Kathleen Maeinel, K.D | Marie Marks |
| Sandy ProcopioJewish Hospital | Marie Marks |
| Cynthia Solomon College of Mt. St. Joseph | Jo Ellen Monroe |
| Saralee Silverglade | Anita MurphySt. Elizabeth Medical Center |
| Saratee Silverglade | Shirley Powell |
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| Gene MossNIOSH | Don McLennan |
| Norman Neal | Richard Norman |
| Dr. Gary Neiheisel | Lloyd Smith |
| Jim Rockwell | Tom Tenkman |
| Loss Control Amorrasia. | Medical Assisting Technology |
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| Ronald HeinemanFrisch's | Gail Hennekes PA-CHill Top Pharmatest |
| Claude Hinds | Lee Moeller, R.N |
| Maurice HiteU.S.A.F. Medical Center | Victoria Nash, C.M.A |
| Donald Huesman | Donna Percy, C.M.A Lipid Research |
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| Elmer Reis | Shella Stuckey, M.A |
| Frank Rhodes | Madia-Dahandan Teshnolom 1000 Washed |
| Bruce Snyder | Medical Laboratory Technology Lois Bonner |
| James StauderArmco Steel | Lois Bonner |
| Anthony Wagers | Cathleen Callies |
| Larry Wilson Environmental Concerns | Bradley E. Copeland, M.D Veterans Administration Hospital |
| Daniel Wolfangel | Werner E. Donath, M.D St. Francis/St. George Hospital |
| Larry Zakem Electronic Eye | Beth Flodder |
| | Paul Laemmle |
| Management Information Systems Sovings and Loan Data Corp. | Carol McCrayJewish Hospital |
| Robert BartlettSavings and Loan Data Corp. | Jim Reynolds |
| Brad Dees | Charles Schultz Drake Memorial Hospital |
| John Fricke | Robert Uhl St. Francis/St. George Hospital |
| William Hilbert | Mary Beth Wilz Booth Memorial Hospital |
| Michael Lense | LLW Named 1995 |
| Thomas Rouff | Medical Record Technology diodesniel shoot |
| William Schunder | Beatrice Busse, RNIwin lowers Methodist Home |
| Juanita Simmons | S.M. Clarita, OP. ART St. Francis/ St. George Hospital |
| Edward Ruppel | Betty Dubin, RRAConsultant |
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| raul Iwilling | Debra Graff |
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| Managerial Accounting Dave Britton | Lela McFerrin, RRA |
| Greg Burgoon | Peggy Rothring |
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| Claudia Grimm | Beverly Ward, ART Clermont Mercy Hospital |
| Linda Lott | Joanna Wietmarschen ART |
| Boo Manning | Jeanne Wietmarschen, ART |
| Ross Owens, Jr | Occupational Therapy Technology |
| Charles Ripperger Frisch's Restaurant, Inc. | Occupational Therapy Technology Sandra Driskell |
| Manufaction Manufaction Manufaction | Jill Frank . 1994 Mayort English |
| Marketing Management/Industrial Marketing | Kimberly HoffmanBethesda Hospital |
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| H. Randolph Holt Institute of Advanced Manufacturing | Renee RollingerPlastic Moldings |
| Keith Wells | John Roth |
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| | Bob Tharp |
| Mechanical Engineering Technology | |
| Jim BalcomLittle Design Company | Landscape Horticulture |
| Michael Brauer Litton Automated Systems | Robert Davis |
| Ken Frey Kenner Parker Toys, Inc. | loe Motz |
| Bill Gerard | Julia Murphy |
| Greg Hauck | Joseph T. Obermeyer |
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| Steve Sandfort R.F | -1 1 - 14 1 |
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| 1 1 7 | Charles Bickford Monarch Marking Systems |
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| Clarence Cox | S. Judith Harper |
| Peggy Harrier | Charlene Madaffer 10.2 notine de la Central |
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| Bill Koenig | Thomas Adillian |
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| Surgical Technology | Mary Ann Childress Collect Ability Plus |
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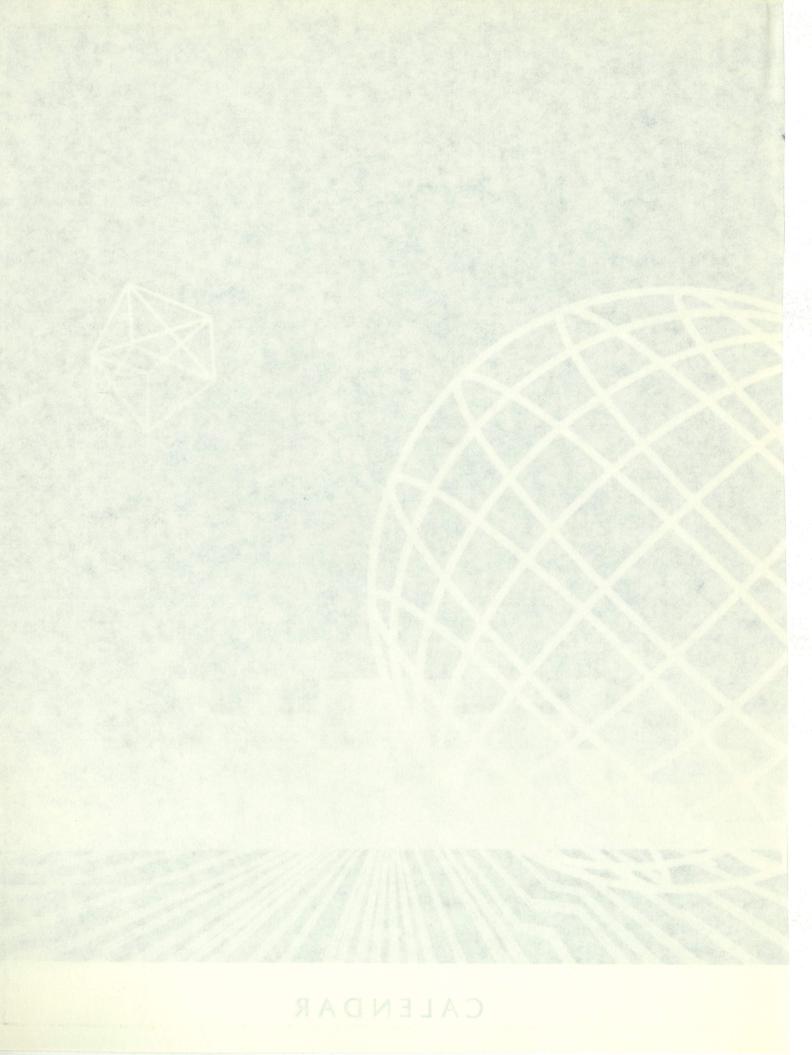


| Residence of Students | Directory |
|--|--|
| Absences | - E |
| Academic Appeals Procedure | Electrocardiography |
| Academic Division | Electro-Mechanical Engineering Technology |
| Academic Policies and Procedures | Electronics Engineering Technology |
| Academic Probation and Dismissal | Engineering Technologies Division |
| Accreditations and Memberships | Aviation Technology |
| Activity Center | Aviation Maintenance Certification Programs |
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| Automotive Service Management Technology | Office Hours |
| Business Management Technology | Fees |
| Chef Technology | Co-op Employment Fees |
| Computer Information Systems Programming | Refunds |
| Data Communications Technology | Financial Aid |
| Financial Management Technology | Flexography Communications Technology |
| Flexography Communications Technology | Financial Management Technology |
| Graphic Communications Technology | G |
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| Real Estate Technology | Greater Cincinnati Consortium of Colleges & Universities |
| Small Business Management Technology | |
| 6), and 6 an | Н |
| C | Handicap Facilities |
| Calendar | Health Technologies Division |
| Changing Technologies | Dietary Manager Certificate |
| Chef Technology | Electrocardiography |
| Civil Engineering Technology—Construction Major | Geriatric Technician |
| Civil Engineering Technology—Surveying Major | Health Unit Coordinator Certificate |
| College Policies | Medical Assistant Technology |
| Communication Skills/Social Sciences Division | Medical Laboratory Technician |
| Computer Engineering Technology | Medical Record Technology |
| Computer Information Systems Programming | Nursing Program |
| Conduct Policy | Occupational Therapy Assistant |
| Continuing Education | Respiratory Therapy Technician |
| Cooperative Education Program | Surgical Technology |
| Co-op Requirement | History of Cincinnati Technical College |
| Co-op Credit Through Documented Valid Work Experience .22 | Hotel-Restaurant Management Technology |
| Academic Requirements | |
| Co-op Experience | Identification Cards |
| Course Descriptions | Identification Cards |
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| D | Industrial Marketing Technology |
| Data Communications Technology | Instructional Media Services |
| Dean's List | International Students |
| Developmental Education | L |
| Dietary Manager Certificate | |
| Dietetic Technician - Nutrition Care | Laser Electro-Optics Engineering Technology |
| Dining Facilities | Library, The Johnie Mae Berry |

| Living Accommodations | Residence of Students |
|--|---|
| Electrocardiography | Robotics |
| Marketing Management Technology | |
| Management Information Systems | Academic Policies and Procedures |
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| Mechanical Engineering Technology | Scholarships |
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| Medical Laboratory Technician | Staff |
| Medical Record Technology | Student Grievance Procedure |
| | Student Hearing |
| Flection Mechanical Engineering Technology | Student Services |
| Nursing Program | Student Senate |
| Laser Electro-Optics Engineering Technology | Counseling |
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| Parking | |
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| Industrial Laboratory Technology | Transcripts |
| Mathematics Placement Service | Financial Management Technology |
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| R | Veterans Affairs |
| Real Estate Technology | VIP Association |
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CALENDAR



| SATURDAY | | | | | SATURDAY |
|---------------------------|--|---|---|---|---------------------------|
| FRIDAY | June Term Grades Due 4:00 pm CES OPEN O a.m4:30 p.m. | 9 June term grades mailed Registration 8:00 a.m4:30 p.m. | 16 17 10 a.m4:30 p.m. | 23 24 | 30 hasiDea |
| THURSDAY | D June Terr Grades E 4:00 pm NO CLASSES/OFFICES OPEN OPEN REGISTRATION 8:00 a.m4:30 p.m. | B Late fee assessed for registration | 15 16 Co-op Registration Only 8:00 a.m4:30 p.m. | 22 | 29 THURSDAY |
| WEDNESDAY | S.C. Draft 3 to but Control of Schools Course Observed Schools Control of Schools Contro | September Term classes begin Senior Citizens Registration Co-op Grades Due Registration 8:00 a.m7:00 p.m. | Co-op Registration 8:00 a.m7:00 p.m. | Last day for November Term Pre-registration Last day to petition— November Term graduates | 28 MEDWESDWA |
| TUESDAY | (Ine boAvgord in g 02) | No Classes/Offices Open Last day to withdraw with 100% refund— September term | Last day to register for September term or add courses except co-op Last day to withdraw with 80% refund— September term Co-op Grades Due June term A:30 p.m. | Last day to register for co-op FTE reporting date Last day to withdraw with 60% refund— September term gistration | 8oard of Trustees Meeting |
| MONDAY | eginari Sermon) m. a. Det 8 m. a. det ser de | S Labor Day/College Closed | 12 Last with Septiment 130 p.m. | FTE rep Last day with 60 Septem Co-op Registration Only 8:00 a.m4:30 p.m. | 26 MOHOWA |
| SEPTEMBER, 1988 SUNDAY | 23 | 4 | 9 | 18 Commencement Music Hall | 25 andres |

| MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
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| 8-60 gr | A-30 our | | o Bostistation of Deophydd Activity | 4 | |
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| | in co-ob | term mailed | 100 | 23 | p co |
| n la | 7.6 fr ur noin prue psius | Co-op Reparation 8:00 s.m. >:00 p.m | O noitettettett qu-co | N 3:00 2.m, -0:30 p, m. | |
| | Jet day to change | 12 | 13 | 14 | 15 |
| | ""/" grades from June term | 27 | O. | 9 | 7 |
| | 4 | noticmas/88 | | m q 96:4-, m, 60:8 | |
| | 18 of sendent | Bills for November term due | 20 | 21 | 22 |
| | No Classes/Offices Open | Drop/Adds | not because asi stali | Steeper wright | 9 |
| ge – | Course Change — Drop/Add only 8:00 a.m4:30 p.m. | 8:00 a.m4:30 p.m. Cashier Open Until 7:00 p.m. | No Registration or | No Registration or Drop/Add Activity | |
| | 25 | 26 | 27 | 28 | 29 |
| | No | No Registration or Drop/Add Activity | media | intel stud | C) |
| Graduation Petitions for January Term begins (end November 24) | Board of Trustees Meeting | MEDVIESDYA | Last Day to Withdraw With a Grade of "W" for Sept. Term | YACIR? | YAGRUTAR |

| SATURDAY | 2 | | 12 | | 19 | | 26 | CO | VACHUTÁZ |
|--------------------------|--|--------------------------------|--|--------------------------------|---|--------------------------------|--|---|--|
| FRIDAY | 4 copes cores | a.m4:30 p.m. | College Closed Veterans Day Observed | | 2 |) a.m4:30 p.m. | 25 College Closed | ю | AMIDWA |
| THURSDAY | 3 Collection Collection | Registration 8:00 a.m4:30 p.m. | No Classes/Offices Open | 8:00 a.m4:30 p.m. | 17 | Registration 8:00 a.m4:30 p.m. | 24 Thanksgiving College Closed | -ssq mss ynautal thes noistletgs: | THURSDAY |
| WEDNESDAY | 2 Morganes | 1 | September term classes end Last day to change "Ip" grades from June Term | 1 | 16 Late fee assessed for registration | 1 | Sept. Term Sept. Term Co-op Grades Due Co-op Registration only 8:00-7:00 p.m. | Last day to withdraw with 60% refund—November term Last day to register for co-op | MEDINESDAY |
| TUESDAY | January term pre- registration begins (ends December 1) January Term schedule available | Registration 8:00 a.m7:00 p.m. | co | Registration 8:00 a.m7:00 p.m. | November Term Classes begin Senior Citizens Registration September term grades due 4:00 p.m. | Registration 8:00 a.m7:00 p.m. | Board of Trustees Meeting Co-op Registration only 8:00-4:30 p.m. | 29 Last day to petition— January Term graduates | Co-op Registration only 8:00-4:30 p.m. |
| MONDAY | SSP Department and the second and th | | 2 | | Last day to withdraw with 100% refund—November term | | Last day to register for November term or add courses except co-op Last day to withdraw with 80% refund—November term grade reports mailed Registration 8:00 a.m4:30 p.m. | 28 | O TROUGHT |
| NOVEMBER, 1988 SUNDAY | S.P. | | 9 | | 13 | | 20 | 27 | SOUTH STATES A SAGRE |

| DECEMBER, 1988 SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
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| ± 5 | 12 Secondarios Chauses personal personal secus security securit | 13 along the sam grades | 14. Bills for January term mailed | 15 8900 PW-4700 W | 16 55 | 17 |
| 18 | 10 | 20 8 | Last day to change "!" grades from September term | 22 ger Cressophine Obsu | 23 Aristicular pick Operating Corposit Clared Structure grap from | 24 |
| 25 Christmas Day | College Closed | Offices Open | Offices Open No Classes Student Winter Recess No Registration or Drop/Add Activity | Offices Open ese of second | SO College Closed | 31 Selfiebra |

| SATURDAY | 7 | 14 SP | 21 | 28 | SYLCHEDRA. |
|-------------------------|--|--|---|---|--|
| FRIDAY | 6 /Add Activity | Last day to withdraw with a "W" for November Term | Registration 8:00 a.m. 4:30 p.m. | Casses end classes end classes end Last day to change "IP" grades from September term | FRIDAY |
| THURSDAY | 5 6 No Registration or Drop/Add Activity | Graduation Petitions for April Term begins (ends February 14) | 10 | 26 Clast day to "IP" grade September Registration 8:00 a.m4:30 p.m. | Z THURSDAY |
| WEDNESDAY | Bills for January term due No pays-voided pre-registration Drop/Add Activity 8:00 a.m4:30 p.m. Cashier Open Until 7:00 p.m. | No Registration or Drop/Add Activity | 18 Registration 8:00 a.m7:00 p.m. | 25 8.8.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9 | septemation First for succeed px |
| TUESDAY | Signature of the state of the s | 10 No Regist | April Term schedule available April term pre-registration begins (ends February 10) | Soard of Trustees Meeting Meeting Registration 8:00 a.m7:00 p.m. | January Term Classes begin Senior Citizens Registration November term grades due - 4:00 p.m. |
| MONDAY | November term Classes Resume Classes Resume Course Changes - Drop/Adds 8:00 a.m4:30 p.m. | Section of the sectio | College Closed Martin Luther King Day Observed | 23 | Last day to withdraw January Te January Te January term Senior Citi November Aron Registration 8:00 a.m7:00 p.m. |
| JANUARY, 1989 SUNDAY | New Year's Day | & | 5 | 22 | 29 RINDAL |

| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
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| 8 | weighter of yellow the weighter with the control of | Series Citama Seglatethos Citama Perio | Late fee assessed for registration | ~ | က | 4 |
| | | m, q DO K., m, s OO B mother big of | Registration 8:00 a.m7:00 p.m. | Registration 8:0 | Registration 8:00 a.m. 4:30 p.m. | |
| 2 | November term grade reports mailed | 2 | œ | 6 | 10 April term pre- | # |
| 5/0 | S | | on on | 200 | registration ends Nov. Term Co-op Grades Due | 65 |
| | Registration 8:00 a.m4:30 p.m. | Co-op Registration 8:00 a.m4:30 p.m. | Co-op Registration only 8:00 a.m7:00 p.m. | Co-op Registration O | Co-op Registration Only 8:00 a.m4:30 p.m. | |
| 12 | 13 ·Last day to register for co-op | 74 Valentines Day | 15 | 16 | 17 | 8 |
| CÎ. | Last day to withdraw with 60% refund— January term | April Term graduates | 00 | et | 20 | 1/2/ |
| | Co-op Registration only 8:00-4:30 p.m. | 904 | удінда Асйній у разрамін Асйній у | | 4 | |
| 19 | 20 Presidents Day | 21 | 22 | 23 | 24 | 25 |
| 00 | College Closed | 0 | eassign - | Greaturion Petitions for | westbettive or yes tracil | ÷ |
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| 26 | 27 Christopher Barrier | 28 Board of Trustees Meeting | Paragraph for Johnson y and the state of the | O. | 0) | 1 |
| STADYA | YAGHON | INERDYA | AEDMEEDWA | | YAGET | AGRUTAR |

| SATURDAY | 4 | 20 | | # 25 | | 18 | Q. | | 25 | CO | | | VACHUTAS |
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| FRIDAY | က | 00 | 8:00 s.m. 4:30 p.gr. | 10 Dar-adipengina darp pau piau S-4 | m.n. 0.5.0 pt.m. | 17 | 2 | No Registration or Drop/Add Activity | 24 Good Friday | College Closed | | 31 | Registration 8:00 a.m4:30 p.m. |
| THURSDAY | 2 | 27 | Co-od prilipping | 60 | gustatures graftatures gr | 16 | ÇÇ. | No Registration o | 23 Last day to withdraw | with a "W" for Jan. term | • | 30 | Registration 8:00 |
| WEDNESDAY | Bills for April term mailed | 98 | Co-op Regionation | œ | | Bills for April term due. No pays—voided pre- | registration Course Changes Drop/Adds | 8:00 a.m4:30 a.m. Cashier Open Until 7:00 p.m. | 22 Graduation Petitions | for June Term begins (ends April 25) | Drop/Add Activity | 59 | WEGWESTA |
| TUESDAY | edialibera mist situati edialibera mist situat eestami uu brood gasteesee | | notiestelge/il go.go. | Last day to change | m.q.00.Xm.n.00.8 neitstrange | 14 | med lings and | Prop/Adds Only 30 p.m. | 21 | * | No Registration or D | 28 Board of Trustees Meeting | Registration 8:00 a.m7:00 p.m. |
| MONDAY | | 5 | RODE III - 120 brav Referencion | de services de velocies. de services de velocies de la compartica de la c | | 13 concessor | wednested of the second | Course Changes — Drop/Adds Only 8:00 a.m4:30 p.m. | 20 | Ç3 | | 27 School of June term pre-chool edges (ends April 21) June term schedule available | |
| MARCH, 1989 SUNDAY | | 523 | | 2 | | 12 | 10 | | 19 | N | | 26 Easter | STAIDYA |

| SATURDAY | - | σ 33 | 15 | 22 | 29 BYLINDYA |
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| FRIDAY | 75 | y term s end No Classes/ Offices Open om Megistration 8:00 a.m4:30 p.m. | 14 a.m4:30 p.m. | June term June term pre-registration ends Co-op Registration 8:00 a.m4:30 p.m. | 28 S |
| THURSDAY | 8 | January term classes end classes end Last Day to Change "IP" Grades from the Nov. Term | 14 14 Registration 8:00 a.m4:30 p.m. | Jo Jan. Term Co-op Grades Due Co-op Registration | 27 5 JHRWEDWA |
| WEDNESDAY | 623 | Saving 121. Congentiate batterne Congentiate batterne Saving 121. Congentiate batterne | 42 Charles of the control of the con | Co-op Registration Only 8:00 a.m7:00 p.m. | 26 and the state of the state o |
| TUESDAY | Roberton Remarks of Employed | 4 Registration 8:00 a.m7:00 p.m. | April term classes begin classes begin January term grades due 4:00 p.m. | Co-op Registration Only 8:00 a.m4:30 p.m. | Last day to petition June Term graduates Board of Trustess Meeting |
| MONDAY | Total time constitution of the constitution of | Score Chillian | Last day to withdraw with 100% refund— April Term No Classes/ Offices Open | Last day to register for April terms or add courses except co-op January term grade reports mailed Last day to with 80% refund—April term Registration 8:00 a.m4:30 p.m. | Last day to withdraw with 60% refund—April Term Last Day to Register for Co-op Registration 8:00 a.m4:30 p.m. |
| APRIL, 1989 SUNDAY | SS (20) | 2 | 6 2 | 16 | 30 |

| MAY, 1989 SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
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| 7 | ® | 6 | 10 Bills for June term mailed | patien shoot and the shoot and | 12 | 13 |
| 00 | 0 | 8 | 77 | N | C | \$P (90) |
| | | Registration 8:00 s.m3:00 p.m. | | galipprogram | grar-4:30 b w | |
| 14 | Last day to change "I" grades from January term | 16 hau character pau rat qua to chause a a a character pau rat qua to chause | 17 | nago sestirolases 81 | 10 Parts State of the Control of the | 20 |
| | The second secon | | All mineral managements and a second | | 4 | |
| 21 | Course Changes 8:00 a.m. | Board of Trustees Meeting Meeting Course Changes-Drop/Adds Only 8:00 a.m4:30 p.m. | Bills for June term due No pays—voided pre-registration Course Changes Drop/Adds 8:00 a.m4:30 p.m. Cashier Open Until 7:00 p.m. | 25 No Registration or | No Registration or Drop/Add Activity | 27 |
| 28 | Memorial Day College Closed | Last day to withdraw Graduation p with a "Vv" for April term (for September (ends July 14) The No Registration or Drop/Add Activity | Graduation petitions for September Term begins (ends July 14) | months | VACUUM STATE OF THE STATE OF TH | CO) |
| STROKE | MOMDAY | THESDAY | AND DESCRIPTION OF THE PARTY OF | SALES SELECTION OF THE PERSON | X6083 | YACHUTAS |

| JUNE, 1989 SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
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| G0 570 | Memorial Day Chiloged Cheed | med lingAnd "W" is differ | Produce notificación and substitute of the control | 1 | 2 | m |
| | eagradD phuaD un s 00:8 | Politicum Politicum Politicum | Cheptocolorin | No Registration or | No Registration or Drop/Add Activity | |
| 4 | September term pre-registration begins (ends July 14) September term schedule available | Populari in Inc. Signatura in | sub-meet grad net efficient bekinden engen get meistenligen en engen en e | œ % | 6 | 10 |
| | Ų · | Registration 8:00 a.m7:00 p.m. | 1 | Registration 8:00 | Registration 8:00 a.m4:30 p.m. | |
| = ** | 12 taunulus lainulus | Last day to change "p" recourses from January term April term classes end Registration 8:00 a.m7:00 p.m. | 14 | 16 April term due—4:00 due | April term grades due—4:00 p.m. | 17 20 |
| 9 | | | | | | |
| <u>8</u> | 6 00 | 20 | 21 British Frank Frank | April term grade reports mailed -Offices Open | 23 | 24 |
| | | | Registration 8:00 a.m4:30 p.m. | | | |
| 25 annow | April 1 Co-op Due Board No Classes/Offices Open | Last day to withdraw with 100% refund— June Term Co-op Grades Due Board of Trustees Meeting fices Open | Jame term classes begin Senior Citizens Registration | Late fee assessed for registration Registration 8:00 p.m4:30 p.m. | 30 | VAGRUTAR |
| 1303 | | Registration 8:00 a.m7:00 p.m. | | | | |

| JULY, 1989 SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
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| | | Paylenside 8-90 s.m. x00 b.m. | * | 0.8 entimbles! | .m.436 p.m.s | |
| 2 | C State of the sta | 4 Independence Day | Last day to register for June term or add courses except co-op | 9 | 7 | œ |
| 20 | Registration 8:00 a.m4:30 p.m. | College Closed | Last day to withdraw with 80% refund— June Term Registration 8:00 a.m4:30 p.m. | Co-op Registration Only 8:00 a.m4:30 p.m. | ation Only | |
| 6 | Co-op Registration Only 8:00 a.m4:30 p.m. | 11 ly 8:00 a.m4:30 p.m. | Last day to register for co-op Last day to withdraw with 60% refund— June term Co-op Registration 8:00 a.m7:00 p.m. | Pand out the broken of the Broken was the broken was the broken was the broken out the broken ou | September Term September Term pre-registration ends Last day to petition September Term graduates | 5 |
| 16 | 17 | 2 00 | -insige? of alia -sub-men had before—sub-man of 61 an q 08:3- m.s or 61 an quantification | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 Bills for September Term mailed | 27 | 28 | 53 |
| 30 | 31 ¹⁰ PEDVA | TUESDAY | ANEDMEROVA | THURSDAY | EMDWA | YACIRUTA2 |
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| 4UGUST, 1989 SUNDAY SUNDAY 13 13 20 27 |
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Contract Training

Cincinnati Technical College can provide custom-designed programs, short and long-term training, credit and noncredit courses to business, industry, and professional organizations in a variety of areas, including the following:

Communications

Communicating Credibility Communications that Get Results Group Dynamics Guest/Customer Relations Interpersonal Skills Listening Skills Motivating your Employee Negotiating Skills **Public Speaking & Presentations** Writing Skills for Technical Professionals

Electrical/Electronics

Basic Industrial Electricity with Troubleshooting Electrical Maintenance **Electrical Motors and Controls Electrical Power Distribution Electronic Troubleshooting Energy Management Process Control** Programmable Logic Controller

Finance

Basic Accounting Principles Fundamentals of Budgeting Finance and Accounting for Non-financial Managers Fundamentals of Financial Management

Health

Certification Review **EKG** Training Food Service Management Health Care Management Techniques **Medical Record Coding** Surgical Techniques Unit Clerk Training

Maintenance

Electrical Troubleshooting Mechanical Drives & Linkages Safe Use of Hand/Portable Power Tools Welding

Management **Building Leadership Skills**

Coaching and Counseling Skills Creative Problem Solving and Decision Making **Executive Writing Increasing Employee Effectiveness** Interviewing and Hiring the Best **Employees** Leading Productive Meetings Leadership Styles
Management Skills and Techniques for the First Line-Supervisor Advanced Management Skills and Techniques for the First-Line Supervisor Managing Change Managing Conflict Managing People

Managing through Influence Performance Appraisals Preparing a Business Plan Presenting a Positive Executive Image Principles of Learning Project Management Stress Management Supervisor Training Groups Team Building Time Management Training the Trainer Transitional Management

Manufacturing

Applied Statistics and Quality Design Blueprint Reading Computer Assisted Manufacturing (CAM) Manufacturing Processes Materials Handling Measurement and Metrology NC/CNC Programming
Production Costs and Controls Shop Math Statistical Process Control (SPC) Tool-Die-Jig and Fixtures

Marketing/Sales

Fundamentals of Marketing Fundamentals of Sales Management for the Newly-Appointed Manager Principles of Professional Selling Sales Presentations and Demonstrations

Math/Science

Programming: Basic **FORTH PASCAL**

Mechanical

Computer Aided Design/Drafting (CADD) Hydraulics and Pneumatics Mechanical Drives & Linkages

Printing Industry Training ProgramsBindery Method Procedures
Cold Type Process Color Separation Color Stripping Computer Graphics Computer Graphic Typesetting Estimating Preparation Flexo Photography **Graphic Arts Processes** Graphic Arts Workshop Layout and Design Offset Press Operation Photolithography I & II Proofreading and Copy Preparation Relief Presswork I & II

Screen Printing Survey of Printing Inks

Personal Development

Setting and Achieving Personal Goals Improving Memory Beginning French Beginning German Beginning Italian **Beginning Spanish**

Personnel Administration

Compensation and Benefits Basic Wage and Salary Administration Advanced Wage and Salary Administration Employee Discipline and Grievance Handling How to Practice Affirmative Action Issues and Personnel Law Negotiating and Administering the Labor Contract Simulated Collective Bargaining Termination at Will

Purchasing

Buyer Basics Advanced Buyer Basics Purchasing and Materials Management

Secretarial

Communication Skills for Secretaries Office Procedures Secretary and Administrative Assistant as Manager Telephone Techniques

Skills Assessment and/or Development

Reading Comprehension Grammar Writing **Mathematics**

Software

Computer Literacy Introduction to Lotus 1-2-3 Advanced Lotus 1-2-3 Lotus 1-2-3 and Macros Introduction to MultiMate Introduction to dBase II Introduction to dBase III Introduction to Symphony Introduction to Wordstar Additional software upon request

Other

Automotive Service Technical Training Career Planning **Culinary Arts** Hotel-Restaurant Management Loss Control/Safety & Security Ornamental Horticulture Real Estate Principles and Practices Real Estate Law

Please contact Paul Callahan, Director of Continuing Education and Extended Services, for further information by calling or writing: