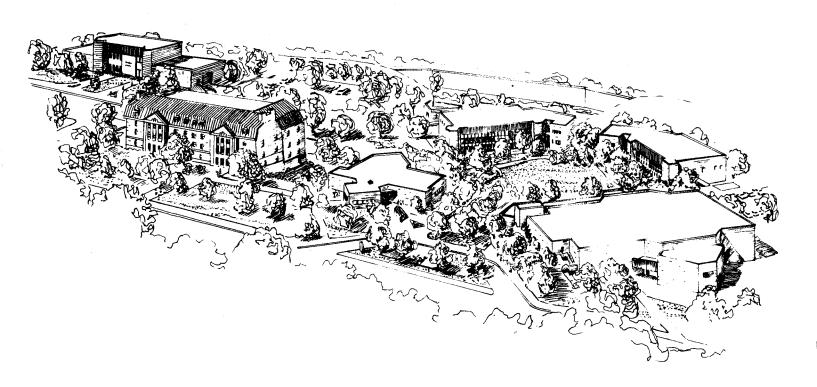
SHAWNEE STATE COMMUNITY COLLEGE

1981-1983



SHAWNEE STATE COMMUNITY COLLEGE 1981-1983

A State of Ohio Assisted Two-Year Community College Offering Both Academic and Technical Programs Through an

Associate of Arts Degree
Associate of Science Degree
Associate of Applied Business Degree
Associate of Applied Science Degree
Associate of Individualized Studies Degree
Selected One Year Programs



SHAWNEE STATE COMMUNITY COLLEGE

940 Second Street Portsmouth, Ohio 45662 Phone 614-354-3205

"In compliance with section 504 of the rehabilitation act of 1973, Shawnee State Community College does not discriminate against handicapped persons, in employment or in admission or access to any of its programs or activities." This institution does not discriminate with regard to race, sex, religion, or national origin. (Richard R. Howard, Coordinator of Services for the Handicapped)

MAJORS OFFERED AT SHAWNEE STATE COMMUNITY COLLEGE

ASSOCIATE OF APPLIED BUSINESS DEGREE

Accounting Banking and Finance Data Processing Retail Marketing Management Secretarial General Executive Medical Legal

ASSOCIATE OF APPLIED SCIENCE DEGREE

Automotive Technology Civil Engineering Diesel Technology Electro-Mechanical Engineering Plant Maintenance Engineering Plastics/Chemical Engineering Welding Technology

Corrections Technology Social Services Technology Recreation and Parks Management Dental Hygiene Associate Degree Nursing Medical Laboratory Radiologic Technology Respiratory Technology

CERTIFICATE OF ALLIED HEALTH (one year programs)

Practical Nursing Respiratory Therapy Technician Emergency Medical Technician — Paramedic

ASSOCIATE OF ARTS DEGREE/ ASSOCIATE OF SCIENCE DEGREE — University

Parallel or Transfer Programs

Teacher Education/Social Sciences

Elementary Education Special Education Secondary Education Biology — General Science Chemistry — General Science Communications — English Emphasis Communications — Speech Emphasis English — Comprehensive General Speech — Speech Emphasis General Speech — Theater Emphasis Health Physical Education Physics — General Science Social Studies **Business Administration**

Government

History Pre-Law Psychology Social Work Sociology

Humanities/Fine Arts

Communications (General) Comparative Arts English Journalism Theater

Mathematics/Sciences

Botany Chemistry Dentistry Engineering Forestry Medical Technology Microbiology or Public Health and Sanitation Optometry Pharmacy Physical Therapy Veterinary Zoology

ASSOCIATE OF INDIVIDUALIZED STUDIES DEGREE

A degree designed for the purpose of meeting the specialized career needs of the individual

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ACCREDITATIONS

Shawnee State Community College is fully accredited by: NORTH CENTRAL ASSOCIATION OF COLLEGES AND SECONDARY SCHOOLS

In addition, the institution is approved by the following agencies: U.S. Office of Education

American Association of Collegiate Registrars and Admissions Counselors

American Association of Junior Colleges

Ohio Board of Regents

Ohio State Department of Education

Ohio College Association

American Dental Association

American Medical Association

State of Ohio Board of Nursing Education and Nurse Registration

Bureau of Vocational Rehabilitation

Social Security Department

College Entrance Examination Board

TECHNICAL ADVISORY COMMITTEES

A technical Advisory Committee has been named for each technical area of cluster of technical areas. These committees, like the general committee, are advisory only, not policy-making. These committees, made up of professional and technical people competent in their fields of specialty, work directly with administration and staff on curriculum needs, employers' viewpoints, up-to-date changes in industry, new equipment and process trends, recruitment ideas, and many more pertinent subjects. This committee insures the college of the latest in industrial and business developments by meeting several times a year for discussions and evaluation.

ADMISSIONS PROCEDURES

ACADEMIC INFORMATION

FEES AND EXPENSES

STUDENT ACTIVITIES

STUDENT SERVICES AND FACILITIES

ADMISSIONS PROCEDURES

Entrance Requirements

Shawnee State Community College will provide access to the college through an open-admissions policy which:

- A. Admits high school graduates as enrollment ceilings permit.
- B. Admits students that have successfully completed the General Education Development Test for high school equivalency as enrollment ceilings permit.
- C. Admits students over 18 years of age without a high school diploma or a GED as part-time students (less than 12 hours credit) as enrollment ceilings permit. The student may be full-time with the Dean of Student Services approval. Upon successful passing of one quarter of part-time course work, the student will be eligible for full-time enrollment.
- D. Admits high school students on a part-time basis with written recommendation from the student's high school principal or counselor and written consent from the student's parent or guardian. Letters of permission and recommendation are required for each quarter of enrollment. Enrollment will be limited to less than 12 hours of credit per quarter.
- E. Admits students that have attended other colleges or universities as enrollment ceilings permit. Evidence of honorable dismissal is required of transfer students.
- F. Admits senior citizens on a non-credit no fee basis as enrollment ceilings permit.
- G. Admits foreign students with F-1 visas, satisfactory language test scores, and sufficient available funds for two years of maintenance and fees.

Application for Admission

Students may submit applications for Fall admissions during the senior year of high school. (Students applying for Dental Hygiene, Medical Laboratory Technology, Respiratory Therapy, Radiology, Practical Nursing, EMT-Paramedic or Associate Degree Nursing are advised to apply for admissions to these programs before March 15. Students are also advised to review the specific admissions requirements for these programs. This information can be found in the program section of this bulletin.)

It is suggested that students file applications for specific quarter enrollment prior to published registration dates for that quarter. (see College Calendar)

Admissions to Freshman studies is possible in the Fall, Winter, Spring, or Summer quarters, excepting programs in the Medical areas outlined above which are available only in the Fall quarter or by special permission of the Program Director.

It is suggested that students applying for financial aid make application for admissions and financial aid before April 15. Applications for admissions and financial aid are accepted after that date, however, financial aid is awarded on a first-come-first-serve basis.

A non-refundable fee of \$15 must accompany the application for admission.

All completed application forms must be directed to:

Shawnee State Community College Admissions Office 940 Second Street Portsmouth, Ohio 45662

High School Transcript

The two-part High School Transcript Request must be submitted to the high school counselor or principal. One part is to be returned with the student's transcript, the other may be retained by the high school as a release form. Students will be notified of admission status when both application and high school transcript are on file.

Students that did not complete high school must have a record of high school work completed, a copy of the General Education Development Certificate on file, or enroll as a part-time student for one quarter.

Admissions Test

Admissions tests are required as part of the admissions procedures to selected programs (Medical Laboratory Technology, Dental

Hygiene, Radiology, Respiratory Therapy, Practical Nursing, Emergency Medical Technician-Paramedic, and Associate Degree Nursing) but are not required as a part of college admissions to other educational programs.

Transfer Students

Students that have attended other colleges or universities are welcome to apply for admissions at Shawnee State. Admissions procedures for transfer students are the same as above (application and high school transcript) and the additional requirement of an official college transcript and evidence of honorable dismissal.* See the section Academics Concerning Transfer Credit.

Admissions Procedures For Foreign Students

The applicant files (1) an admissions application, (2) complete official transcripts and pertinent certificates for all secondary and post-secondary work (an official translation must accompany transcripts and certificates which are not in English — do not submit documents for which there is only one copy. Documents submitted in support of an application cannot be returned to owner) (3) results of the test of English as a foreign language (TOEFL) if the applicant's native language is not English. Applicants must score a total of 500 to be admitted without restriction. Applicants scoring 450-499 will be reviewed by the Director of Admissions with possible admission under a restricted course load and specific courses. Students with scores of less than 450 and without additional supporting evidence will not be admitted. (4) such evidence as may be required by the college concerning the applicant's ability to meet the financial obligations of a student in the United States.

The Shawnee State Community College budget for a self supporting single student is \$4,450.00 for the 1981-82 academic year. The applicant must present a statement from a U.S. bank indicating that the applicant has resources equal to the amount required for two years of education or \$9,000.00 and that these resources will be available to the applicant.

Immigration regulations prevent applicants from earning any substantial portion of this amount. There are virtually no scholarships available to students from abroad.

Due to the special problems which may be encountered by a student from abroad, upon arrival the student will be assigned a counselor by the Dean of Student Services.

Payment of the \$15.00 non-refundable application fee may be deferred until registration.

Further information concerning the TOEFL can be obtained by writing the Educational Testing Service, Box 592, Princeton, New Jersey, 08540.

Once the student receives an acceptance letter, he will also receive an I-20 form to be used in securing a student visa. Questions pertaining to your visa should be directed to the nearest immigration office.

Students must show evidence of a non-immigrant "F-1" student status visa to be eligible to register.

Senior Citizens

Shawnee State encourages senior citizens (60 or older) to audit any course of interest to them. Admissions to a course will be granted if space is available. Formal admission and registration is required but no fees will be charged, however, senior citizens can receive credit by paying tuition and fees.

*Students will be admitted as "provisional students" until such time the *official transcripts* have been received from the previous colleges.

ACADEMIC INFORMATION

Academic Integrity

Students at Shawnee State College are required to do their own work on all tests and assignments. Any form of cheating may result in the student's being withdrawn from a particular course or courses, as well as possible dismissal from the college.

Faculty Role

Faculty expect regular and punctual attendance at all classes. Attendance policy for individual classes is made by the faculty members responsible for the class.

Grades are controlled by the faculty member responsible for the class.

In the event that a faculty member is not present at the normal time class beings, students are to remain in the classroom an additional 15 minutes. If the class meets once a week for 3-5 hours, the students must remain in the classroom for 45 minutes. If the faculty member has not arrived or no special instructions have been received, students may leave class without penalty.

Each faculty member posts office hours during which they are available to discuss individual problems relating to a student's academic progress. Students are encouraged to take full advantage of the advisory assistance of the faculty.

Grading

Final grades are mailed at the end of each quarter by the Record's Office. Grades will not be issued orally.

Description of Grades

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Grade	Description	Quality Points
Α	Excellent	4.00
A-		3.67
B+		3.33
В	Good	3.00
B-		2.67
C+		2.33
C	Average	2.00
C-	•	1.67
D+		⊾ 1.33
D	Poor	1.00
D-		0.67
F	Failing	0
TC	Transfer Credit	0
KE	Credit by Exam	0
NC	No Credit	0
WD ·	Withdrawal	0
1	Incomplete	.0
Р	Pass	0-

A grade of "F" receives no credit. A student making this grade must repeat the course if credit is to be received.

Transfer Credit

Credit earned at regionally approved colleges and universities or regents approved Ohio colleges with a grade of "C" or better may be converted to "TC" on the student's academic record. Normally, a "D" is not transferable, however, if the "D" is part of a course sequence in which the student's average grade is "C" or better, a "D" may be transferred. The credit hours transferred do not become a part of the grade point ratio. To receive transfer credit, the student must file an official transcript of previous college work and a transfer of credit form with the Director of Admissions.

Incomplete Grades

Students unable to attend class for extended periods of time may contact the faculty member responsible for the class requesting an incomplete grade. Incompletes must be converted to a grade 30 class days into the next quarter or they will be recorded as "F's."

Pass/Fail Option

Students may take courses on a pass/fail option by completing the proper forms with a Student Services Counselor. Forms for pass/fail must be completed within the first 10 class days of a regular quarter and 5 class days for a 5-week summer quarter. The student's decision to take a class on a pass/fail basis is not subject to change. Student may not take over one class per quarter on a pass/fail basis without approval of the Dean of Student Services.

Course Credit By Examination

Students have the opportunity to fulfill requirements for selected courses offered at Shawnee State Community College by examination. Students interested in pursuing this educational option should first secure the advice of a college counselor (Academic courses) or program director (Technical courses) as to its appropriateness for the student's program of study. Since all courses are not available on a "by examination" basis, the student should then contact the appropriate college dean. The college dean, after consultation with appropriate faculty, will then make a determination as to the feasibility of the student's request.

A fee of \$40,00 is charged for Course Credit by Examination.

Approved proficiency will be recorded as "KE" on the student's transcript. Credit by examination is not included in the calculation of cumulative point ratio.

Students are not eligible to take a proficiency examination for a course in which he has been enrolled for 20 class days or more.

Credit given by examination does not apply toward the 30 hour residency requirement for graduation.

College Level Examination Program

Students may be awarded credit for College Level Examinations taken under the College Entrance Examination Board. Students taking the general examinations in English composition, mathematics, natural sciences, and humanities with a score in the 45th percentile or above will be given "KE" credit for the first sequence course in the above areas.

Subject Examinations may be used to earn "KE" credit for courses in subject areas of the Examinations. Students must achieve in the 45th percentile or above to receive credit.

Credit given through the College Level Examination Program does not apply toward the 30 hour residency requirement for graduation.

Repeating Course Work

Students may repeat courses which they have previously completed. In order for the final transcript to reflect only the highest grade earned, the student must complete a course deletion form in the records office.

Changing Grades

Students questioning course grades must work through the faculty member responsible for the class. If you question a grade received, contact the faculty member.

Grade Point Ratio

Quality points for a course are determined by multiplying the total credit hours by the numerical equivalent of the letter grade received in a course.

The formula for calculating grade point ratio is:

Total Quality Points = Grade Point Ratio
Total Hours Attempted

Academic Probation

Students achieving a grade point average of 1.5 or less for any quarter will be placed on academic probation for the following quarter provided their accumulative grade average does not fall below that required to remain enrolled. (See academic dismissal section below.)

Academic Dismissal

Students will be academically dismissed when their accumulative grade average falls below the following:

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Credit Hours Attempted	Accumulative Grade Average	
21-40	.75 or below	
41-55	1.00 or below	
56-65	1.25 or below	
66-75	1.50 or below	
76-85	1.75 or below	
86-and above	1.90 or below	

Students academically dismissed are eligible to re-enroll after one quarter.

Adding a Class

Students may add a class to their schedule during the first ten class days of the quarter (five days of a 5-week summer session) by completing a change order with a student services counselor.

Withdrawing from a Class

Students may withdraw from a class during the first 35 class days of the quarter (17 days of the 5-week summer sessions) by completing a change order form with a student services counselor. See refund of fees.

Withdrawing from College

Students withdrawing from college when classes are in session must request the proper forms from a student services counselor. Grades for scheduled classes will be recorded as withdrawal (WD).

Students not following the withdrawal procedure are considered enrolled in the class and graded accordingly.

See fee schedule for refund policy.

Non Credit

Students may elect to take a course for non-credit during the first 35 class days of a quarter (17 days of the 5-week summer sessions) by completing the proper forms in the Student Services Office.

Course Credit By Arrangement

Students have the opportunity to fulfill requirements for selected courses offered at Shawnee State Community College by arrangement. Students interested in pursuing this educational option should first secure the advice of a college counselor (Academic courses) or program director (Technical courses) as to its appropriateness for the student's program of study. Since all courses are not available on a "by arrangement", the student should then contact the appropriate college dean. The college dean, after consultation with appropriate faculty, will then make a determination as to the feasibility of the student's request.

Students may earn up to 18 credit hours toward graduation with all credit being considered resident credit. The student is limited to eight hours of credit by arrangement per quarter. Students enrolling in a course by arrangement have until the date grades are due the following quarter to have all work completed in the course.

See the fee schedule for course by arrangement fees.

Dean's List

Full-time students (12 or more hours per quarter) who achieve a 3.5 or above grade point ratio will be placed on the dean's list for that quarter.

Student Load

Students scheduled for 12-20 credit hours are considered full-time students. Students scheduled for less than 12 credit hours are considered part-time students. The permission of the Dean of Student Services is required for students scheduling over 20 hours of credit. See fee schedule for extra hour fees.

Graduation Requirements

In order to graduate, a student must have successfully completed all course requirements and have achieved a 2.0 cumulative grade ratio in all course work and his major field of study. Students having outstanding institutional bills or notes will not be issued a degree. All students are required to earn 30 hours of credit at Shawnee State in order to be eligible for graduation.

Graduation with Honors

Students with an accumulative grade point ratio of 3.5 or above prior to the quarter of graduation will be graduated with honors. Students with an accumulative grade point ratio of 3.7 or above prior to the quarter of graduation will be graduated with high honors.

Transcripts

Each quarter students will receive a grade report that includes grades achieved that quarter and all previous quarters.

Students having errors in grade reports should contact the Director of Admissions immediately.

Students may request transcripts from the Student Services Office. There is no charge for the first transcript. Subsequent transcripts are \$2.00 each.

Requests for official transcripts must be in writing and addressed to the Director of Admissions.

Visitors to Class

Students planning to bring a visitor to a class with them are requested to obtain permission of the faculty member responsible for the class in advance of the visit.

Internship Guidelines

Programs requiring internship as part of the graduation requirements have guidelines for internship established by student advisors and faculty. Students are urged to request a copy of these guidelines from faculty advisors.

FEES AND EXPENSES

Registration Fees

Registration fees are payable at the Business Office prior to the opening of classes and in accordance with instructions issued with your quarterly bill. For students registering during late registration fees are assessed as part of the registration process and are due at that time. Fees may be paid by cash, check, money order, Visa, or Master Charge. It is important that the student retain all fee receipts.

Payment of fees owed is a prerequisite to official enrollment and all students should have sufficient funds (cash and/or financial aid) to cover these expenses.

A review of students enrolled will be made the 14th day of each quarter and any student showing a balance due will be administratively dismissed.

Schedule of Fees

	Resident of Ohio	Nonresident
Instructional fee	\$260.00	\$290.00
Full Time Student		
(12-20 cr. hrs.)		
Part Time Student	22.00 per cr. hr.	24.00 per cr. hr.
(1-11 cr. hrs.)		
General Fee		
Full Time Student	35.00	35.00
Activity Fee		
Full Time Student	5.00	5.00
Part Time Student	5.00	5.00
Lab Fees	see below	
Extra fee for each quarter	22.00 per cr. hr.	24.00 per cr. hr.
hour in excess of 20 hours	s	
Credit by Examination	30.00 per course	30.00 per course
Course by Arrangement	40.00 per cr. hr.	40.00 per cr. hr.
Graduation Fee	30.00	30.00

*Shawnee State Community College reserves the right to make, without prior notice any fee adjustments that may become necessary.

Lab Fees

See the course description section for identification of classes with lab fee charges. The fee per class is available at any of the following offices:

Business Office Admissions Office Library

Student Insurance

Shawnee is providing all full time students the benefit of a very good comprehensive health insurance policy. With your Fall Quarter billing you will be automatically enrolled in the program and the fee assessed. **Important**; if you do not want the insurance coverage you **must** complete a waiver card and submit the same to the Business Office. Questions concerning student health insurance may be obtained at the Business Office.

Refund of Fees

Continuing students dropping hours by change order prior to or during the first fourteen (14) days of the quarter, when such changes result in a reduction of fees, are entitled to receive a 100 percent refund of the reduction. Changes made after the fourteenth (14) day of the quarter will result in no refund.

Students that **officially** withdraw from Shawnee State will **receive** a refund, if due, based upon the following schedule. Students that do not officially withdraw *are not* eligible for any refund and fees assessed are due and payable.

Time of Withdrawal (Regular Term)	Refund
1 to 14 days	100% of Tuition
15 to 20 days	50% of Instructional fee
21 to 25 days	25% of Instructional fee
over 25 days	No refund
Time of Withdrawal (5 week session)	Refund*
1 to 3 days	100% of Tuition
4 to 6 days	75% of Instructional fee
7 to 9 days	50% of Instructional fee
10 to 12 days	25% of Instructional fee
over 12 days	No refund

*This schedule for refunds will apply to students registered only in a five week session.

Please note: Students taking classes from both a regular quarter and a five week session will be issued refunds under the regular Term Policy.

Refunds are issued 30 days after the date of the withdrawal or change has been issued.

Questions about the above information should be referred to the Business Office.

Late Registration and Late Payment Policy

A late registration fee of \$25.00 will be assessed all students enrolled in the previous quarter that do not register during the announced early registration period.

A late payment fee would normally not be applicable since payment is a prerequisite to registration. However, should exceptions be made to the Registration Fee section a late payment fee of \$20.00 will be assessed by the Business Office.

Miscellaneous Fees Activity Fee

All students will be assessed a \$5.00 activity fee for each quarter. This fee is to support all student activities. No activity fees are assessed for the Summer Quarter.

Application Fee

A \$15.00 application fee, non-refundable, must accompany all admission applications.

Transcript Fee

The College will produce one official transcript upon written request from the student at no cost. Additional transcripts will be reproduced at a cost of \$2.00 per copy.

Parking

The second parking permit is \$1.00 and each additional permit is \$3.00.

STUDENT ACTIVITIES

Music and Drama

The music and theatre departments at Shawnee State Community College actively plan performances the year round. During the regular school year the music department presents at least three concerts by the performing choral group, the Shawnee Choir. These performances feature both classical and popular music. The Choir is made up of both college students and community members whose common interest is singing good music. The Choir frequently performs for civic and service organizations outside the college community, as well. Shawnee Choir is open to any Shawnee State student.

The drama department presents several dramatic productions during the year. These shows tour area high schools and are also presented on campus. Each spring the music and theatre departments combine to present a musical at Bonneyfiddle. The Bonneyfiddle productions are open not only to Shawnee State performers, but to community and area performers as well.

In addition to the large-scale productions, the Shawnee State Players stage at least one children's theatre production during the year.

Student Complaints

Guidelines are available to assist in the maintenance of legitimate rights and obligations of both students and institutional representatives, and to assist in the maintenance of academic integrity. The climate of the institution is one of the services to the student and in assisting him/her in reaching his/her established goals. Guidelines can be found in the Shawnee Student Handbook located in the library and in each counselor's office. The institution seeks to establish an atmosphere of openness and it is in this spirit that these guidelines are offered.

College Laws and Regulations

General Student Conduct

A student community can function effectively only if the rights and obligations of all its members are recognized. At Shawnee State Community College, students are expected to observe the standards of propriety at all times. This implies thoughtful consideration of the welfare of the students and the college. Of particular concern to the college are the following areas of improper conduct with may result in disciplinary action, including suspension from the college.

Unacceptable Conduct

Unacceptable conduct is concerned with the following areas:

Consumption or possession of alcoholic beverages

Possession and Use of Narcotics

Harmful or Dangerous items (possession or use of firearms, etc.)

Gambling

Dishonesty Forgery

Hazing

Interfering with Safety Procedures

Further information on this area can be found in the library or in the counselors office — Shawnee Student Handbook.

Information can be found in the Shawnee Student Handbook on Ohio House Bill No. 1219, College Policy to Review Student's Records and the Grievance Procedure for Student Senate Affairs. Handbooks are available in the Library and Counselors office.

Cultural Affairs

A committee composed of both faculty and students direct a program of cultural affairs. This committee arranges for speakers, musical groups, and other activities of a cultural nature to appear on campus.

Intramural Athletics

The Department of Physical Education is striving to provide an intramural program that offers a wide variety of athletic and recreational activities. It is felt that the students at Shawnee State College should have an opportunity to participate in a program that gives them the freedom to choose leisure time activities that will best meet their individual needs. Our goal is to have every student participating in intramural activities. To accomplish this goal there must be close cooperation between the student body, the Intramural Department and College officials. Students are asked to participate in planning and supervising various aspects of the program.

Tentative Intramural Events 1981-82

Team Events Individual Events & Dual Events 1. Touch Football 2. Basketball 3. Volleyball 4. Bowling 5. Softball 5. Archery 6. Bridge

Interscholastic Athletics

Shawnee State College's philsophy holds that there is more to learning than just academics. Besides attending classes, every student has an opportunity to participate in a recreational or athletic area.

Chess

Varsity athletics supplement the classroom experience by emphasizing cooperation, leadership, courage, sacrifice and discipline.

Athletic policies at Shawnee State conform to the policies and regulations of the National Junior College Athletic Association of which they are a member. Presently within the NJCAA framework, Shawnee State teams participate on an intercollegiate level in basketball, golf, and tennis. The college plans to expand with additional programs in the near future.

STUDENT SERVICES AND FACILITIES

Student Services Counseling

The College provides a wide variety of counseling services through the different offices of Student Services. Admissions, placement, financial aid, veterans, educational, vocational, marriage and family, and personal-social counseling are available to students without cost. Counseling services are available to students, alumni, and their families at no cost upon request at the Student Services offices.

Professional Counselors and Building Location:

Dotty Welch Commons Building Richard R. Howard Commons Building Eugene Wilson Commons Building

Tom Davidson Business & Engineering Building

Fred Chrisman Riffe Building
Dr. Paul D. Crabtree Commons Building

Counseling sessions are confidential.

Student Services Offices are open from 8:00 a.m. to 8:00 p.m., Monday thru Thursday and 8:00 a.m. to 4:00 p.m. on Friday.

Faculty Advising

Academic advising is provided by faculty advisors. The purpose of faculty advisement is to assist students with their immediate academic concerns. Faculty members meet with students by appointment and each faculty member will have available hours posted near his/her office.

Developmental Education

Developmental courses in mathematics, biology, chemistry, physics, and study methods are offered to students who have completed the admissions process. Students take these courses to qualify for certain programs, or to increase their chances for success in college.

A peer tutoring program is also available to students upon faculty or counselor recommendation. Students may receive academic tutoring of up to three hours per week for courses in which they are experiencing academic difficulty. If you are interested in receiving the service, please contact a faculty member or a student services counselor. If you are interested in being a tutor, please contact the developmental education department. Tutors are reimbursed for their tutoring time.

Financial Aid

An extensive Financial Aid Program is available to assist students in meeting some of the expenses of a college education. The Financial Aid Program is administered by the Financial Aids Office, and the program includes four categories: scholarships, grants, loans, and employment.

Scholarships: The college administers a limited number of special scholarships for students demonstrating a high degree of academic ability or special talents. Students interested in scholarships should contact the Financial Aids Office.

Grants: The college administers three types of grant programs: the Ohio Instructional Grant (O.I.G.), the Basic Educational Opportunity Grant (PELL), and the Supplemental Educational Opportunity Grant (SEOG). Grants are not repaid. Interested students should contact the Financial Aids Office.

Loans: Questions regarding state or federal guaranteed loans should be addressed to the student's local bank or lending agencies.

Emergency Loans are available on a limited basis to students needing short-term assistance with direct or related educational expenses. Amounts of these loans are not to exceed \$50.00

College Work-Study: The College Work-Study Program is available to students who can demonstrate financial need through the completion of the FAF.

Part-time Student Employment: Part-time student employment is available on a limited basis through the Placement Office of the Student Services Office. This is not part of the Financial Aid Program, therefore, evidence of financial need is not necessary.

To be considered for these programs, a student must complete the Financial Aid Form (FAF), and submit it to the College Scholarship Service (CSS). Ohio residents must complete the Ohio Instructional Grant Application and submit it to the Ohio Board of Regents. Once Shawnee State has this information, the student's file is complete and an award notice will be sent.

Veteran's Administration Benefits

The programs at Shawnee State are approved by the State Approving Agency for the education of veterans and their eligible dependents. Students interested in V.A. benefits should contact the Veterans Affairs Office located in the Office of Student Services.

Placement Services

The nature of the programs offered at Shawnee State College make two types of placement necessary: Occupational and Transfer Placement.

Occupational Placement: Students interested in employment after graduation should contact the Placement Office in advance of the quarter they plan to graduate. Companies and business establishments conduct annual recruiting campaigns for two-year graduates. The Office for Occupational Placement is located in the business and engineering building.

Transfer Placement: Students interested in continuing their education at a four-year college or university should contact the Placement Office two quarters before they plan to graduate. Recruiters from four-year institutions will be invited on campus. The Office of Transfer Placement is located in Commons building.

Placement services are available to graduating students and alumni of the college at no cost.

Housing

There are no dormitories or campus housing at Shawnee State. The college makes available to students the names and addresses of area residents who have rooms and apartments for rent. The college does not inspect or approve available housing, but the list gives the student and his/her parents an idea of where to locate housing.

The College does not accept responsibility for agreements, leases, or contracts between students and landlords.

Parking

All cars must be registered at the Business Office before using any College parking facilities. A campus guide to traffic/parking regulations is available at the Business Office, Commons Building. All violators are subject to fines and/or towing as outlined in the brochure.

Bookstore

The College operates a bookstore for student convenience. Bookstore hours will be posted on the door.

Closing the College

If an emergency would exist because of mechanical failure that would necessitate the closing of the college, the announcement would be carried over WPAY, WIOI, WIRO and WNXT radio and Teleprompter Cable T.V.

Libraries

Library services are available to serve the needs of students. Students should fill out borrowers' cards after registration. Please ask the librarian for aid in obtaining information and printed materials you would like to have.

Identification Cards

I.D. cards will be issued to Shawnee State College students. An I.D. card is a necessary source of campus identification in utilizing the library and student activities. Students must present evidence of registration certification at the time the I.D. card is received.

SHAWNEE STATE COMMUNITY COLLEGE

ASSOCIATE OF ARTS DEGREE ASSOCIATE OF SCIENCE DEGREE UNIVERSITY PARALLEL/TRANSFER CURRICULA

TRANSFER OR UNIVERSITY PARALLEL PROGRAMS

Transfer or University Parallel Programs

The various transfer curricula developed at Shawnee State College are designed with the major objective of enabling students to complete the first two years of study toward a baccalaureate degree. In awarding the Associate of Arts and Associate of Science Degrees, Shawnee State verifies that the student has successfully completed the first two years of a four-year program and is ready for upper division work in a baccalaureate college or university. Students can pursue transfer programs in the fields of social and behavioral sciences, natural sciences, humanities, fine arts, teacher education, and several other preprofessional programs.

Because curricula of the first two years in various colleges and universities may differ, students who plan to transfer to a baccalaureate institution should follow the procedure outlined below:

- Secure a catalog of the institution to which he wishes to transfer and become familiar with its admission requirements and suggested freshmen and sophomore courses in his major field of interest.
- Consult with a counselor or academic advisor at Shawnee State about fulfilling these requirements.
- Confer with an admissions officer at the senior institution for further information about transfer regulations and applicability of credit.

The transfer programs which are outlined are intended to indicate typical requirements in various programs. The student assumes responsibility for course selections necessary to satisfy the requirements of the senior institution to which he intends to transfer.

Associate of Arts/Associate of Science

(College or University Parallel Programs)

Courses offered under the A.A. or A.S. Degrees at Shawnee State resemble those courses typically offered during the first two years at a baccalaureate institution. Students may enroll in courses for personal enhancement, or enroll in a program developed specifically for transfer to a four-year college or university. The A.A. & A.S. Degrees have been specifically designed to permit a broad curricula sampling in the areas of communications, social sciences, natural sciences and humanities, thus preparing the student for more advanced study at the receiving institution.

Requirements for the Associate of Arts/Associate of Science

A total of 90 qtr. hours of credit (minimum) — $\underline{30}$ qtr. hours of which must be in courses numbered $\underline{200}$.

2.00 cumulative average required for graduation.

Associate of Arts

I. Core Requirements

Designed primarily for those desiring two years of general education with an emphasis in the arts, social sciences, or humanities.

A. Communications (11 qtr hrs.)

Two courses from: Eng. 111, Eng. 112, Eng. 115, Eng. 140A, B, C or D (topics in English Language and Literature), and Speech 101 (Speech I) or Speech 102 (Speech II)

B. Natural Sciences (12 hrs. min.)

At least two courses from one area:

A. Biological Sciences (Bio. 111 or above)

B. Chemistry (Chem. 121, 122, or Chem. 141, 142, 143)

C. Geology

D. Physics

E. Physical Sciences

F. Mathematics (Math 120, 121, 130-32, 150, 201-203)

C. Social Sciences (12-15 hrs.)

Courses covering two areas:

A. Economics (Econ 101, 102)

B. Psychology

C. Geography
D. Government

E. History

F. Sociology

G. Anthropology

D. Humanities (20 hrs. min.)

Courses covering two areas:

A. Philosophy

B. Comparative Arts

C. Humanities

D. Art

E. Modern Language

F. Music

G. Theater

H. Literature/English

E. Health/Physical Education (2-4 qtr. hrs.)
Two activity courses or Health 202.

II. Concentration Area.

Selected Specialized Courses

Associate of Science

I. Core Requirements

Designed primarily for those desiring two years of general education with an emphasis in the sciences and mathematics.

A. Communications (11 qtr. hrs.)

Two courses from: Eng. 111, Eng. 112, Eng. 115, Eng. 140A, B, C or D (Topics in English Language and Literature), and Speech 101 (Speech I) or Speech 102 (Speech II)

B. Natural Sciences/Mathematics (20 hrs. min.)

At least two courses from one area:

A. Biological Sciences (Bio. 111, or above)

B. Chemistry (Chem. 121, 122, or Chem. 141, 142, 143)

C. Geology

D. Physics

E. Physical Sciences

F. Mathematics (Math 120, 121, 130-32, 150, 201-203)

C. Humanities and Social Sciences (24-30 qtr. hrs.)

(Social Sciences) (12-15 qtr. hrs.)
 Three courses covering two areas:

A. Economics (Econ. 101, 102)

B. Psychology

C. Geography

D. Government

E. History

F. Sociology

G. Anthropology

2. (Humanities) (12-15 qtr. hrs.)

Three courses covering two areas:

A. Philosophy

B. Comparative Arts

C. Humanities

D. Art

E. Modern Language

F. Music

G. Theater

H. Literature

D. Health/Physical Education (2-4 qtr. hrs.)Two activity courses or Health 202.

II. Concentration Area.

Selected Specialized Courses

NOTES

SHAWNEE STATE COMMUNITY COLLEGE

University Parallel/Transfer Curricula

The suggested transfer curricula which follow have been based upon various baccalaureate degree requirements using Ohio University as a guide. It is important to note that they are suggestions only, and that the personal preference and the college or university to which the student may transfer will ultimately determine appropriate course selections and program.

CONCENTRATION AREAS

Education/Social Science

Elementary Education Special Education Secondary Education: Biology — Gen. Sci. Chemistry — Gen. Sci. Communications — English Emphasis
Communications — Speech Emphasis English — Comprehensive General Speech — Speech Emphasis General Speech — Theater Emphasis Health **Physical Education** Physics — Gen. Sci. Social Studies **Business Administration** Government History Pre-Law Psychology Social Work Sociology

Humanities/Fine Arts

Art
Communication (General)
Comparative Arts
English
Journalism
Theater

Mathematics/Sciences

Botany
Chemistry
Dentistry
Engineering
Forestry
Medical Technology
Medicine
Microbiology or Public Health and Sanitation
Optometry
Pharmacy
Physical Therapy
Veterinary
Zoology

CONCENTRATION AREAS

Education

Elementary Education
Special Education
Secondary Education:
Biology — Gen. Sci.
Chemistry — Gen. Sci.
Communications — English Emphasis
Communications — Speech Emphasis
English — Comprehensive
General Speech — Speech Emphasis
General Speech — Theater Emphasis
Health
Physical Education
Physics — Gen. Sci.
Social Studies

ELEMENTARY EDUCATION*

Freshman ¹Science Modern Math (Math 120 & 121 — Elem. Topics in Math) ²Speech 101 or 102 Psy. 101, General English (Eng. 111, 112, 115, 140 A, B, C, D) ³Social Sciences (Electives) Physical Education Total	12 10 3 4 8 8 1
Sophomore	Hours
³ Social Sciences (Electives)	12
Ling. 270	5
Music 160, 161	6
HPER 202 Personal and Community Health	4
HPER 270 Phy. Ed. for the Elem. Teacher	3
HPER (Activity Courses)	, 1
Art for the Elem. Teacher I, II	,6 5
Education Psy. (275)	5
Humanities Electives	4
Total	46

- Three courses required must include at least one course in Biology and one in the Physical Science. (All courses must include lab).
- Speech 101 for high school deficiency. Speech 102 if you have HS speech credit.
- Social Science Electives must include one course in Am. Hist. or Am. Govt. and Geog. 121 Cultural Geog.
- *A 20 qtr. hr. concentration is required for a Baccalaureate Degree for the College of Education at Ohio University. This concentration may be in any department outside the College of Education, but may be taken in the School of Health, Physical Education and Recreation or School of Home Economics.

EDUCATION — SPECIAL EDUCATION

Freshman English (111, 112, 115, 140 A,B,C,D)	8 4 8 8 8 1 8
Total	45
Sophomore	Hours
Speech 101 or 102	3
HPER 202 (Per. and Comm. Health)	4
HPER 250 (Recreational Leadership)	3
Art 201, 202 (Art for the Elem. School I, II)	6
Math (Math 120 or higher)	5
Music 160, 161	6
Physical Education	. 1
Electives	12
Psyc 275	5
Total	45

EDUCATION (BIOLOGY — GENERAL SCIENCE)

Freshman English (111, 112, 115, 140 A, B, C, D) Chemistry 141, 142, 143 Biology 111, 112, 113 *Math 201, 202 Physical Education Total	8 12 16 10 2
Sophomore Speech 101 or 102	3 12 12 12 12 5 4

^{*}Math 130 sequence may be elected in preparation for calculus.

EDUCATION (CHEMISTRY — GENERAL SCIENCE)

Freshman English (111, 112, 115, 140 A,B,C,D) Chemistry 141, 142, 143 *Math 201, 202, 203 Humanities (Core Requirements — See Page 13) Social Sciences (Core Requirements—Psy. 101 required) Physical Education Total	8 12 15 8 4 1
Sophomore Chemistry 205, 206, 207 Physics 201, 202, 203 Social Science Elective Psychology 275 (Educ. Psy.) Chemistru 225 and 224 Physical Education Speech 101 or 102	12 12 4 5 10 1
Total	47

^{*}Math 130 sequence may be elected in preparation for calculus.

EDUCATION — COMMUNICATIONS (ENGLISH EMPHASIS)

Freshman	Hours
English (111, 112, 115, 140 A,B,C,D)	8
1 math) (Math 120 or higher)	-12
Social Sciences (Core Requirements—Psy. 101 required)	12
Humanities (Core Requirements — See Page 13)	12
Physical Education	1
Total	45
Sophomore	Hours
Psychology 275	5
Speech 101 or 102	3
Speech 105 (Intro. to Mass. Comm.)	4
Speech 220 or Thar. 220 (Oral Inter. of Lit.)	4 4
Speech 215 (Discussion)	
English 201, 202, or 203	4
English 204, 205, or 206	4
English 225 or 226	4
Electives (English)	4
Electives (General)	8
Total	45

COMMUNICATIONS — SPEECH EMPHASIS

Freshman	Hours
English 111, 112, 115, 140 A,B,C,D	8
Speech 102	3
Natural Sciences/Math (At least 1 course	•
in each) (Math 120 or higher)	12
Social Sciences (Core Requirements—Psy. 101 required)	12
Humanities (Core Requirements — See Page 13)	12
(
Total	47
Sophomore	Hours
Psychology 275 (Educ. Psy.)	5
Thar. 100 (Intro. to Theater)	3
Journalism 231 (News Reporting)	4
English 201, 202, or 203	4
Physical Ed	2
	18
Speech 105 (Intro. to Mass. Comm.)	4
Speech 215 (Group Discussion)	4
Speech 220 or Thar. 220 (Oral Interp.)	4
Electives	20
	32
Total	50

EDUCATION — GENERAL SPEECH (SPEECH EMPHASIS)

Freshman Speech 101, 102 Speech 105 (Intro. to Mass. Comm.) English (111, 112, 115, 140 A,B,C,D) Natural Sciences/Math (Core Requirements — at least 1 course in each) (Math 120 or higher) Psychology 101	Hours 6 4 8
Humanities (Core Requirements — See Page 13) Total	12 46
Sophomore	Hours
Psychology 275 (Educ. Psy.) Social Sciences (Core Requirements — See Page 13) Physical Ed. Thar. 220 or Speech 220 (Oral Inter.) Speech 215 (Group Discussion) Electives (Thar. 215, Thar. 100) Electives (General)	5 8 2 4 4 4 1in. 5
Total	45

EDUCATION — ENGLISH COMPREHENSIVE

Freshman	Hours
English (111, 112, 115, 140 A,B,C,D)	8
Speech 101 or 102	3
Sciences/Math (1 science and 1 math)	
(Math 120 or higher)	12
Social Sciences (Core Requirements—Psy. 101 required)	8
Humanities (Core Requirements — See Page 13)	8
Physical Education	2
Electives	4
Total	45
Sophomore	Hours
Sophomore Social Science (Core Requirements — See Page 13)	Hours 4
Social Science (Core Requirements — See Page 13) Humanities (Core Requirements — See Page 13)	
Social Science (Core Requirements — See Page 13) Humanities (Core Requirements — See Page 13) Psychology 275 (Educ. Psy.)	4
Social Science (Core Requirements — See Page 13) Humanities (Core Requirements — See Page 13) Psychology 275 (Educ. Psy.) English 201, 202, or 203	4 4 5 4
Social Science (Core Requirements — See Page 13) Humanities (Core Requirements — See Page 13) Psychology 275 (Educ. Psy.) English 201, 202, or 203 English 204, 205, or 206	4 4 5 4 8
Social Science (Core Requirements — See Page 13) Humanities (Core Requirements — See Page 13) Psychology 275 (Educ. Psy.) English 201, 202, or 203 English 204, 205, or 206 English 225 and 226	4 4 5 4
Social Science (Core Requirements — See Page 13) Humanities (Core Requirements — See Page 13) Psychology 275 (Educ. Psy.) English 201, 202, or 203 English 204, 205, or 206 English 225 and 226 Electives (Must include 1 English course sbove	4 4 5 4 8 8
Social Science (Core Requirements — See Page 13) Humanities (Core Requirements — See Page 13) Psychology 275 (Educ. Psy.) English 201, 202, or 203 English 204, 205, or 206 English 225 and 226	4 4 5 4 8

EDUCATION — GENERAL SPEECH (THEATER EMPHASIS)

Freshman Speech 101, 102 English (111, 112, 115, 140 A,B,C,D) Natural Sciences/Math (Core Requirements — at least 1 course in each) (Math 120 or higher) Social Sciences (Core Requirements—Psy. 101 required) Humanities (Core Requirements — See Page 13)	Hours 6 8 12 8 12
Total	46
Sophomore Psychology 275 (Educ. Psy.) Social Sciences (Core Requirements — See Page 13) Physical Ed. Thar. 100 (Intro. to Theater) Thar. 0100 A,B,C (Shawnee Co.) Thar. 201 (Children's Theater) Thar. 215 (Principles of Acting) Thar. 220 or Speech 220 (Oral Interp.) Thar. 225 (Stage Costume and Make-up) Electives	5 4 2 3 9 5 3 4 3 6
Total	44

EDUCATION — HEALTH

Freshman English (111, 112, 115, 140 A,B,C,D) Speech (101, 102) one course HPER 261 (Introduction to P.E. & Health) Psychology 101 Sociology 101 Biology 111 Math (1 course) (Math 120 or higher) Comparative Arts and/or Philosophy HPER 227 (First Aid) HPER 234 (Laboratory Experience in Phys. Ed.) HPER 110 (3 Activity Classes) HPER 295 (Independent Study) Elective	4 3 2 4 4 5 4-5 8 4 2 3 2 2
Total Sophomore English (111, 112, 115, 140 A.R.C.D.)	46-48 Hours 4
English (111, 112, 115, 140 A,B,C,D)	4 5
Comparative Arts and/or Philsophy	4
Biology 290B, 291B (Anatomy & Physiology I, II)	10
HPER 202 (Personal and Community Health)	4
HPER 110 (3 Activity Classes)	3
HPER 204 (Drugs, Alcohol and Tobacco)	4
HPER Electives	13
Total	47

EDUCATION (PHYSICS — GENERAL SCIENCE)

Freshman	Hours
English (111, 112, 115, 140 A,B,C,D)	8
Chemistry 141, 142, 143	12
*Math 201, 202, 203	15
Humanities (Core Requirements — See Page 13)	4
Social Sciences (Core Requirements —Psy. 101 required) . Physical Education	4 2
Speech 101 or 102	3
Total	48
Sophomore	Hours
Physics 201, 202, 203	12
Humanities (Core Requirements — See Page 13)	8
Psychology 275 (Educ. Psy.)	5
Social Sciences (Core Requirements— See Page 13)	8
Electives (Sciences)	12
Total	45

^{*}Math 130 sequence may be elected in preparation for calculus.

EDUCATION — PHYSICAL EDUCATION*

	Hours
English (111, 112, 115, 140 A,B,C,D)	4
Speech (101, 102) one course	3
HPER 261 (Introduction to P.E. & Health)	2
Psychology 101	4
Social Science (Elective)	4
Biology 111	5
Math (1 course) (Math 120 or higher)	4-5
Comparative Arts and/or Philosophy	- 8
HPER 227 (First Aid)	4
HPER 234 (Laboratory Experience in Phys. Ed.)	2
HPER 110 (3 Activity Classes)	3
HPER 295 (Independent Study)	2
Elective	2
Total	46-48
Sophomore	Hours
English (111-112-115-140 A B C D)	4
English (111, 112, 115, 140 A,B,C,D)	4
Psychology 275 (Educ. Psy.)	5
Psychology 275 (Educ. Psy.) Comparative Arts and/or Philosophy	5 4
Psychology 275 (Educ. Psy.) Comparative Arts and/or Philosophy Biology 290B, 291B (Anatomy & Physiology I, II)	5 4 10
Psychology 275 (Educ. Psy.) Comparative Arts and/or Philosophy Biology 290B, 291B (Anatomy & Physiology I, II) HPER 202 (Personal and Community Health)	5 4 10 4
Psychology 275 (Educ. Psy.) Comparative Arts and/or Philosophy Biology 290B, 291B (Anatomy & Physiology I, II) HPER 202 (Personal and Community Health) HPER 110 (3 Activity Classes)	5 4 10 4 3
Psychology 275 (Educ. Psy.) Comparative Arts and/or Philosophy Biology 290B, 291B (Anatomy & Physiology I, II) HPER 202 (Personal and Community Health) HPER 110 (3 Activity Classes) HPER 250 (Recreation)	5 4 10 4 3 4
Psychology 275 (Educ. Psy.) Comparative Arts and/or Philosophy Biology 290B, 291B (Anatomy & Physiology I, II) HPER 202 (Personal and Community Health) HPER 110 (3 Activity Classes) HPER 250 (Recreation) HPER 204 (Drugs, Alcohol and Tobacco)	5 4 10 4 3 4 4
Psychology 275 (Educ. Psy.) Comparative Arts and/or Philosophy Biology 290B, 291B (Anatomy & Physiology I, II) HPER 202 (Personal and Community Health) HPER 110 (3 Activity Classes) HPER 250 (Recreation) HPER 204 (Drugs, Alcohol and Tobacco) HPER 239 Athletic Officiating Football	5 4 10 4 3 4
Psychology 275 (Educ. Psy.) Comparative Arts and/or Philosophy Biology 290B, 291B (Anatomy & Physiology I, II) HPER 202 (Personal and Community Health) HPER 110 (3 Activity Classes) HPER 250 (Recreation) HPER 204 (Drugs, Alcohol and Tobacco) HPER 239 Athletic Officiating Football 240 Athletic Officiating Basketball	5 4 10 4 3 4 4
Psychology 275 (Educ. Psy.) Comparative Arts and/or Philosophy Biology 290B, 291B (Anatomy & Physiology I, II) HPER 202 (Personal and Community Health) HPER 110 (3 Activity Classes) HPER 250 (Recreation) HPER 204 (Drugs, Alcohol and Tobacco) HPER 239 Athletic Officiating Football	5 4 10 4 3 4 4

^{*}Ohio University: Geol 0101 or Geog. 0101 and Chem. 0121 required additionally by the College of Health & Human Services.

EDUCATION — SOCIAL STUDIES*

Freshman English (111, 112, 115, 140 A,B,C,D) Laboratory Sciences (two quarter sequence) Mathematics (Math 120 or higher) Humanities (Core Requirements — See Page 13) History 101, 102, and 103	8 8-10 4-5 12 12
Psychology 101	4
Total	48-51
Sophomore	Hours
History 111, 112, and 113	12
Government 101 and 102	8
Economics 101 and 102	8
Geography 101	4 4
Psychology 275 (Educ. Psy.)	5
Sociology 101Anthropology 201	4 5
Speech 101 or 102	3
Physical Education	2
Total	51

^{*}For preparation leading to state teacher certification in a history-government comprehensive, students consult faculty in the Social Science Division and the appropriate catalog of the college to which they plan to transfer.

CONCENTRATION AREAS

Humanities/Fine Arts

Art
Communication (General)
Comparative Arts
*English
Journalism
Theater

*Students interested in transferring to Ohio University should consult with the Director of the O.U. Resident Credit Center for specific foreign language requirements.

PRE-ART MAJOR

COMPARATIVE ARTS CONCENTRATION

Freshman English (111, 112, 115, 140 A,B,C,D) Natural Sciences (Core Requirements — See Page 13) Social Sciences (Core Requirements — See Page 13) Art 100 (Fundamentals of Vis. Art) Comparative Arts (101, 102, 103) Physical Education	8 12 12 4 9
Total	46
Sophomore	Hours
Speech 101 or 102	.3
Art 101, 102, 103 (Studio Foundations)	15
Art 221, 222, 223 (Painting I, II, & III) and/or	
Art 231, 232, 233 (Ceramics I, II, & III)	12
Art 271 (Life Drawing I)	4
Art 261, (Art History I)	. 4
Physical Education	1
Electives	4
Art Electives	8
Total	51

Freshman Speech I or Speech II English (111, 112, 115, 140 A,B,C,D) Natural Sciences (Core Requirements — See Page 13) Social Sciences (Core Requirements — See Page 13) Comparative Arts 101, 102, 103 Physical Education	8 12 12 9 2
Total	46
Sophomore	Hours
Music (choose 15 hours)	15
Theater (choose 15 hours)	. 15
Thar. 100 (A, B, & C)	
Thar, 215 (Principles of Acting)	
Thar, 225 (Stage Costume & Make-Up) 3	
Art (choose 15 hours)	. 15
Art 101 (Studio Foundations) 5	
Art 102 (Studio Foundations) 5	
Art 103 (Studio Foundations) 5	
Electives	. 3
Total	48

Students who enroll in this program should do so with the prior knowledge that when they transfer to a four-year institution they will in most circumstances be required to enroll in only one of the three areas (Theater, Art or Music). The courses taken in the other areas will be electives.

PRE-COMMUNICATIONS (GENERAL) MAJOR

PRE-ENGLISH MAJOR

Freshman English (111, 112, 115, 140 A,B,C,D)	8 12 12 12 12 2
Total	46
Sophomore Speech 101 or 102 Jour. 105, or Speech 105 (Intro. to Mass Comm.) Speech 215 (Group Discussion) Thar. 215 (Acting), or Sp. 220/Thar. 220 (Oral Interp.) Psychology 101 (Principles of Psychology) Electives Total	3 4 4 3 4 27

Freshman English (111, 112, 115, 140 A,B,C,D) Humanities (Core Requirements — See Page 13) Language 111, 112, 113 Natural Sciences (Core Requirements— See Page 13) P.E. or Health Total	8 12 12* 12 2 46
Sophomore Speech 102 English (201, 202, 203) English (204, 205, 206) English 225, 226 Language 211, 212, 213 Social Science (Core Requirements— See Page 13) English Elective	3 4 4 8 12* 12 4
Total	47

 $^{^\}star \mbox{Dependent upon previous language experience and college to which the student transfers.$

PRE-JOURNALISM

PRE-THEATER MAJOR

Freshman English (111, 112, 115, 140 A,B,C,D) Government 102 (Logic) Natural Science (Core Requirements—See Page 13) Philosophy 101, 102, 103 or Lang. 111, 112, 113 Journalism 105 (Intro. to Mass Comm.) Soc. 201 (Current Social Problems) Physical Education	8 4 12 12 4 4	Freshman English (111, 112, 115, 140 A,B,C,D) Natural Sciences (Core Requirements—See Page 13) Social Sciences (Core Requirements—See Page 13) Humanities (Core Requirements—See Page 13) Physical Education Total	Hour 8 12 12 12 12 1 1
Total	45	Sophomore	Hour
Sophomore Speech 102 Economics 101, 102 History 101, 102, 103 or History 111, 112, 113 Psychology 101 Journalism 231 (News Reporting) Physical Education Electives (Social Sciences)	Hours 3 8 12 4 1 13 13	Speech 101 or 102 3 English Classes at 200 level or above Thar. 101 A, B, C Thar. 225, Costume and Make-Up Thar. or Inco 220 Thar. 215 Thar. 100 Thar. 201 Thar. 230 Physical Education	3 12 9 3 3 3 5 3
	-	Total	45

CONCENTRATION AREAS

Mathematics/Sciences

*Botany
*Chemistry
Dentistry
Engineering
Forestry
*Medical Technology

Medicine

Microbiology or Public Health and Sanitation

Optometry
Pharmacy
Physical Therapy
Veterinary
*Zoology

*Students interested in transferring to Ohio University should consult with the Director of the O.U. Resident Credit Center for specific foreign language requirements.

PRE-BOTOANY MAJOR

Freshman	Hours
English (111, 112, 115, 140 A,B,C,D)	8
Speech 102	3
Chemistry 141, 142, 143	12
Biology 111, 112, 113	16
*Math 201, 202	10
Physical Education	2
Total	51
Sophomore	Hours
•	Hours 12
Chemistry 205, 206, 207 Biology 211	12 5
Chemistry 205, 206, 207 Biology 211 Biology 225	12 5 5
Chemistry 205, 206, 207 Biology 211 Biology 225 Biology 210	12 5
Chemistry 205, 206, 207 Biology 211 Biology 225 Biology 210 Social Sciences (Core Requirements— See Page 13)	12 5 5 5 12
Chemistry 205, 206, 207 Biology 211 Biology 225 Biology 210	12 5 5 5

^{*}Math 130 sequence may be elected in preparation for calculus.

PRE-DENTISTRY MAJOR

Freshman English (111, 112, 115, 140 A,B,C,D) Speech 102 Chemistry 141, 142, 143 *Math 201, 202 Biology 111, 113 Biology 225 Physical Education	8 3 12 10 11 5
Total	51
Sophomore Chemistry 205, 206, 207, 224 Physics 201, 202, 203 Social Sciences (Core Requirements— See Page 13) Humanities Electives (Core Requirements— See Page 13)	17 12 12 12 12
Total	53

^{*}Math 130 sequence may be elected in preparation for calculus.

PRE-CHEMISTRY MAJOR

Freshman English (111, 112, 115, 140 A,B,C,D) Speech 102 Chemistry 141, 142, 143 *Math Calculus 201, 202, 203 Humanities Elective (Core Requirements— See Page 13) Social Science (Core Requirements— See Page 13) Physical Education	8 3 12 15 4 4
Total	47
Sophomore	Hours
Chemistry 205, 206, 207	12
Physics 201, 202, 203	12
Humanities Elective (Core Requirements— See Page 13)	8
Social Science (Core Requirements—See Page 13)	8
Chemistry 224 & 225	10
Physical Education	1
Total	51

^{*}Math 130 sequence may be elected in preparation for calculus.

PRE-ENGINEERING MAJOR

A student may obtain one full year in the various areas of Engineering. The freshman schedule should be built around the freshmen curriculum of the college or university to which you plan to transfer.

PRE-FORESTRY MAJOR

Freshman	Hours
English (111, 112, 115, 140 A,B,C,D)	
Speech 102	3
Chemistry 141, 142, 143	12
*Math 201, 202	10
Biology 111, 112, 113	16
Physical Education	2
Total	51

Sophomore

See counselor for additional information regarding the Forestry School of Transfer.

^{*}Math 130 sequence may be elected in preparation for calculus.

'PRE-MEDICAL TECHNOLOGY MAJOR

Freshman	Hours
Chemistry 141, 142, 143	12
*Math 201, 202	10
Speech 102	3
Biology 111, 113	11
English (111, 112, 115, 140 A,B,C)	8
Physical Education	. 2
Total	46
Sophomore	Hours
Chemistry 205, 206, 207	12
Chemistry 224 & 225	. 10
General Genetics (Biology 225)	5
Social Science (Core Requirements—See Page 13)	12
Humanities Elective (Core Requirements—See Page 13)	12
Total	51

*Math 130 sequence may be elected in preparation for calculus.

PRE-MEDICINE MAJOR

Freshman	Hours
English (111, 112, 115, 140 A,B,C,D)	8
Speech 102	3
Chemistry 141, 142, 143	12
Biology 111, 113	11
*Math 201, 202	10
Social Sciences (Core Requirements—See Page 13)	4
Physical Education	2
Total	50
Sophomore	Hours
Chemistry 205, 206, 207, 224	17
Biology 0225	5
Physics 201, 202, 203	12
Social Sciences (Core Requirements—See Page 13)	8
Humanities Electives (Core Requirements—See Page 13)	12
Total	54

*Math 130 sequence may be elected in preparation for calculus.

PRE-MICROBIOLOGY or PUBLIC HEALTH & SANITATION MAJOR

Freshman	Hours
English (111, 112, 115, 140 A,B,C,D)	8
Speech 102	3
Chemistry 141, 142, 143	12
Biology 111, 112, 113	16
*Math 201	5
Biology 225	5
Social Science	4
Ttoal	53
Sophomore	Hours
Chemistry 205, 206, 207, 224	17
Physics 201, 202, 203	12
Social Sciences (Core Requirements—See Page 13)	8
Humanities Electives (Core Requirements—See Page 13)	12
Physical Education	2
Total	51

*Math 130 sequence may be elected in preparation for calculus.

PRE-OPTOMETRY MAJOR

Freshman	Hours
English (111, 112, 115, 140 A,B,C,D)	8
Speech 102	3
Chemistry 141, 142, 143	12
Biology 111, 113	11
*Math 201, 202	10.
Psychology 101	4
Physical Education	2
Total	50
Total Sophomore	50
Sophomore	Hours
Sophomore Chemistry 205, 206, 207, 224	Hours
Sophomore Chemistry 205, 206, 207, 224 Physics 201, 202, 203	Hours
Sophomore Chemistry 205, 206, 207, 224	Hours 17 12

*Math 130 sequence may be elected in preparation for calculus.

PRE-PHARMACY MAJOR

Freshman English (111, 112, 115, 140 A,B,C,D) Speech 102 Chemistry 141, 142, 143 Biology 111, 113 *Math 201, 202 Economics 101	8 3 12 11 10 4
Total	48
Sophomore	Hours
Chemistry 205, 206, 207, 224	17
Physics 201, 202, 203	12
Social Sciences (Core Requirements—See Page 13)	8
Physical Education	2
Humanities (Core Requirements—See Page 13)	12
Total	51

*Math 130 sequence may be elected in preparation for calculus.

PRE-PHYSICAL THERAPY MAJOR

Freshman	Hours
English (111, 112, 115, 140 A,B,C,D)	8
Chemistry 141, 142, 143	12
Biology 111, 113	11
Biology 225	-5
Physical Education 202	4
Psychology 173	5
Math 150 or Psychology 241	5
Total	50
Sophomore	Hours
•	
Richary 2008 2018 (Anatomy & Physiology I II)	10
Biology 290B, 291B (Anatomy & Physiology I, II)	10 3
Speech 102	
Speech 102	3
Speech 102	3 4
Speech 102 Sociology 101 Physics 201, 202 Psychology 275	3 4 8
Speech 102 Sociology 101 Physics 201, 202 Psychology 275 Psychology 270	3 4 8 5
Speech 102 Sociology 101 Physics 201, 202 Psychology 275	3 4 8 5 5

PRE-VETERINARY MAJOR

Freshman	Hours
English (111, 112, 115, 140 A,B,C,D)	8
Speech 102	3
*Math 201, 202	10
Chemistry 141, 142, 143	12
Biology 111, 113	11
Zoology 225	5
Physical Education	2
Total	51
Sophomore	Hours
Chemistry 205, 206, 207, 224	17
Physics 201, 202, 203	12
Social Sciences (Core Requirements—See Page 13)	12
Humanities Elective (Core Requirements—See Page 13)	12
Total	53

^{*}Math 130 sequence may be elected in preparation for calculus.

PRE-ZOOLOGY MAJOR

Freshman .	Hours
English (111, 112, 115, 140 A,B,C,D)	. 8
Speech 102	3
Chemistry 141, 142, 143	12
Biology 111, 112, 113	16
*Math 201, 202	10
Physical Education	2
Social Science	4
Total	55
Sophomore	Hours
Chemistry 205, 206, 207, 224	17
Physics 201, 202, 203	12
Social Sciences (Core Requirements—See Page 13)	8
Biology 225 — Genetics	5
Humanities Elective (Core Requirements—See Page 13)	12
Total	54

^{*}Math 130 sequence may be elected in preparation for calculus.

CONCENTRATION AREAS

Social Sciences

Business Administration *Government

- *History
 *Pre-Law
 *Psychology
 Social Work
- *Sociology

^{*}Students interested in transferring to Ohio University should consult with the Director of the O.U. Resident Credit Center for specific foreign language requirements.

PRE-BUSINESS ADMINISTRATION MAJOR

Freshman English (111, 112, 115, 140 A,B,C,D) 'Social Sciences *Math 201, 202 Economics 101, 102 Natural Sciences Physical Education Total	8 8 10 8 12 2
	Hours
Sophomore Humanities (Core Requirements—See Page 13) Social Sciences Business Law 250 Accounting 101, 102, 103 Speech 102 (Public Speaking) QM 200, 201 (Quantitative Methods) Electives [RMMT 0102 RMMT 0301 Suggested]	12 4 4 12 3 8
Total	51

¹Recommended: Government 101, 102 Sociology 101, Psychology 101, 131

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PRE-HISTORY MAJOR

Freshman	Hours
English (111, 112, 115, 140 A,B,C,D)	8
Philosophy 101 (Fundamentals)	4
History 111, 112, 113 (United States)	12
Foreign Language or Humanities/Arts	12
Natural Science (2 courses in the same area)	8
Physical Education	2
Total	46
Sophomore	Hours
Speech 102	3
History 201, 202, 203 (West Civ)	12
Philosophy 102 (Logic)	4
Humanities	4
Natural Science	4
History Electives	6
Electives	12
Total	45

GOVERNMENT MAJOR

Freshman	Hours
English (111, 112, 115, 140 A,B,C,D)	8
Natural Science (Core Requirements—See Page 13)	12
Physical Education	2
Language or Humanities/Arts	12
Government 101, 102	8
Philosophy (102 or 103)	4
Timooopiiy (tota or tota)	
Total	46
Sophomore	Hours
Speech 102	3
History (111, 112, 113)	12
Any three courses from the following:	15
Govt. 201 (Urban Politics)	
Govt. 203 (Pol. in the American States)	
Govt. 205 (Appalachian Politics)	
Govt. 204 (Intro. to World Politics)	
Govt. 229 (Current Pol. Topics)	
Soc. Sci. 210 (Introduction to Urban Politics)	
Electives	12
Math 150 (Elem. Stat. for Soc. & Behavioral Sciences)	4
Total	46

PRE-LAW MAJOR

Freshman English (111, 112, 113, 115, 140 A,B,C,D) Philosophy 102 (Logic), 103 (Moral) Business Law 250, 260 Lab Science (2 quarter sequence) Government 101, 102 Speech 102 (Public Speaking) Electives (200 Level)	8 8 8 8 8 8 8
Total	47
Sophomore	Hours
History 111, 112, 113	12 8
Economics 101, 102 Psychology 101 (Introduction)	4
Physical Education	2
Electives (200 Level courses)	.19
Total	45

^{*}Math 130 sequence may be elected in preparation for calculus.

PRE-PSYCHOLOGY MAJOR

PRE-SOCIOLOGY MAJOR

Freshman English (111, 112, 115, 140 A,B,C,D) Humanities Natural Sciences (Core Requirements—Biology 111, 112 recommended) Language or Humanities/Arts Psychology 101 Math 150 (Elem. Stat. for Soc. & Behav. Science)	8 12 12 4	Freshman English (111, 112, 115, 140 A,B,C,D) Humanities (Core Requirements—See Page 13) Natural Sciences (Core Requirements—Biology 111, 112 recommended) Language or Humanities/Arts Sociology 101 (Principles of Sociology) Physical Education	8 8 8 12 12 4 2
Total	48	Total	46
Sophomore	Hours	Sophomore	Hours
Speech 102	3	Speech 102	3
Philosophy		Humanities (Core Requirements—See Page 13)	4
Sociology 101 (Prin. of Sociology)		Math 150 (Elem. Stat. for Soc. & Behav. Sciences)	4
Sociology 210 (Current Social Problems)		Psychology 101	4
P.E. or Health		Anthropology 201	5
Psychology (Electives)		Sociology Electives	13
Electives	12	Electives	12
Total	45	Total	45

PRE-SOCIAL WORK MAJOR

Freshman	Hours
English (111, 112, 115, 140 A,B,C,D)	8
Psychology 101 (General Psychology)	4
Psychology 173 (Child and Adolescent)	4
Sociology 101 (Principles of Sociology)	4
Natural Sciences (Core Requirements—Biology 111, 112 recommended)	12
Government (101 or 102)	4
Philosophy 102 (Moral Philosophy)	4
Physical Education	2
Electives	4
Total	46
Sophomore	Hours
Sophomore Speech 102	Hours 3
•	
Speech 102	3
Speech 102	3
Speech 102	3 4 8
Speech 102 Math 150 (Elem. Stat. for Soc. & Behav. Science) Economics 101, 102 Anthropology 201 Sociology 202 (Intro. to Family Sociology) Government 201 (Urban Politics) or	3 4 8 5 4
Speech 102 Math 150 (Elem. Stat. for Soc. & Behav. Science) Economics 101, 102 Anthropology 201 Sociology 202 (Intro. to Family Sociology) Government 201 (Urban Politics) or 205 (Appalachian Politics)	3 4 8 5 4
Speech 102 Math 150 (Elem. Stat. for Soc. & Behav. Science) Economics 101, 102 Anthropology 201 Sociology 202 (Intro. to Family Sociology) Government 201 (Urban Politics) or 205 (Appalachian Politics) Humanities (Core Requirements—See Page 13)	3 4 8 5 4 4-5 8
Speech 102 Math 150 (Elem. Stat. for Soc. & Behav. Science) Economics 101, 102 Anthropology 201 Sociology 202 (Intro. to Family Sociology) Government 201 (Urban Politics) or 205 (Appalachian Politics)	3 4 8 5 4

BUSINESS TECHNOLOGIES

(ASSOCIATE OF APPLIED BUSINESS DEGREE)

Accounting
Banking and Finance
Data Processing and Computer Programming
Secretarial
General Executive
Retail Marketing Management

ACCOUNTING TECHNOLOGY

CAREERS IN ACCOUNTING

Management (Industrial) Accounting

The management accountant is trained to determine the financial consequences of management decisions. The reports and analyses of the management accountant are essential ingredients of most management decisions about finance investments and pricing policies. More than anyone else on the management team, the management accountant participates in virtually every phase of the business problem solving and decision making process. Because of the accountant's role in this process, he or she has many times advanced to a top management position within the company.

Governmental Accounting

All organizations need accounting information. Government and other non-profit organizations are no exception. The federal government hires accountants in most of its agencies. Three prominent agencies are the Internal Revenue Service, the General Accounting Office and the Defense Contract Audit Agency. State and local government units hire accountants in their tax divisions and in general accounting function. Schools and hospitals are major users of accounting services. Many opportunities exist for those interested in governmental accounting.

Public Accounting and the CPA

For the protection of the public the CPA is expected to possess certain professional qualifications. The Uniform CPA Examination is designed to measure the technical competency, the exercise of good judgment, and the understanding of professional responsibility of each man or woman who chooses this career in accounting. The public accountant is a true independent professional person with the stature as that of a doctor or lawyer. In public accounting many opportunities exist for professional growth whether you practice as a sole practitioner or as part of a larger firm.

FIRST YEAR CURRICULUM

ACCOUNTING Course Class Lab Cr.

Math 0130 if intending to pursue advanced degrees.

No.	Course	Code	Hrs.	Hrs.	Hrs.	_					
	FIRST QUARTER					Course No.	Course	Code	Class Hrs.	Lab Hrs	Cr. Hrs.
Acct 0101	Accounting I	т	3	4	4			,			11.0.
Engl 0111	Contemporary Writing Skills I	Ġ	5	ō	4		FOURTH QUARTER				
ExŠT 0120	Business Machines !	Ť	3	ŏ	3	Acct 0221	Cost Accounting I	т	3	4	. 4
Math 0105	Business Math	B	5	ŏ	4	Acct 0205	Principles of Finance	T	3	0	3
RMMT 0101	Introduction to Business	В	4	Ö	3	BusL 0250	Business Law I	В	4	ō	4
		_				Psyc 0101	Principles of Psychology	G	5	0	4
			20	4	18		Business Elective**	Т	3	4	4
	SECOND QUARTER								— 18	_ 8	19
Acct 0102	Accounting II	Т	3	4	4					Ŭ	
Engl 0112	Contemporary Writing Skills II	Ġ	5	Ö	4		FIFTH QUARTER				
Econ 0101		В	5	ŏ	4	Acct 0222	Cost Accounting II	т	3	4	4
*Math 0101	Basic Algebra (See Advisor)	В	5	ō	4	BusL 0260	Business Law II	В	4		4
RMMT 0301	Principles of Management	В	4	Ō	4	EDPT 0101	Basic Language	Ť	2	0 3 0	3
	-		_	_	_	Spch 0101	Speech I	Ġ	3	ñ	3
			22	4	20	•	Business Elective**	_	Ū	Ū	4
	THIRD QUARTER								 12	-	 18
Acct 0103	Accounting III	т	3	4	4				12	,	10
Acct 0104	Tax Accounting	÷	3	3	4		SIXTH QUARTER				
Engl 0115	Comp. and Mass Comm.	Ġ	5	0	4	Acct 0110	Payroll Records/Accounting	т	_	•	•
ExŠT 0101	Typing I (or Business Elective)		2	4	3	EDPT 0103	COROL I	<u>.</u>	2 3	3 4	3 4
Econ 0102	Principles of Economics II	В	5	ŏ	4	Soci 0101	Principles of Sociology	Ġ	5	4	4
		_		_			Personnel Management	T	3	0	3
			18	11	19		Business Elective**	•	3	U	4-5
*Students v	vith adequate high school ma	athema	atics s	hould	elect				— 13	<u> </u>	 18-19

**BUSINESS ELECTIVES (See Advisor):

Acct 0211 - Intermediate Accounting I (4) Acct 0231 - Governmental Accounting (4) ExST 0101 - Typing I (3)

RMMT 0102 - Marketing (4) RMMT 0235 - Advertising (4) RMMT 0210 - Labor Relations (4) RMMT 0211 - Industrial Relations (4)

RMMT 0212 - Human Relations (4) Math 0106 - Business Statistics (4) Math 0131 - College Algebra II (4)

QMet 0200 - Quantitative Methods I (4) QMet 0201 - Quantitative Methods II (4)

SECOND YEAR CURRICULUM ACCOUNTING/PUBLIC EMPHASIS

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	FOURTH QUARTER				
Acct 0211	Intermediate Accounting I	Т	3	4	4
Acct 0221	Cost Accounting I	Т	3	4	4
Acct 0205	Principles of Finance	T	3	0	3
BusL 0250	Business Law I	В	4	0	4
Psyc 0101	Principles of Psychology	G	5	0	4
			_	_	
			18	8	19
	FIFTH QUARTER				
Acct 0212	Intermediate Accounting II	. Т	3	4	4
Acct 0222	Cost Accounting II	T		4	4
Acct 0242	Business Communications	G	. 3	2	3
EDPT 0101	Basic Language	Т	2	3	3
Spch 0101	Speech I	G	3 3 2 3	0	3
				. —	
			14	13	17
	SIXTH QUARTER				
Acct 0213	Intermediate Accounting II	Т	- 3	4	- 4
Acct 0241	Auditing	Т	3	3	3
EDPT 0103	COBOLI	Т	3	4	4
Soci 0101	Principles of Sociology	G	5 3	0	4
RMMT 0302	Personnel Management	T	3	0	3

SECOND YEAR CURRICULUM

ACCOUNTING/INDUSTRIAL-GOVERNMENTAL **EMPHASIS**

BANKING AND FINANCE TECHNOLOGY

The Banking and Finance Technology Program is designed to provide the individual with a background that will provide many opportunities to broaden his/her knowledge and skills in a business environment. The student will have an opportunity to participate in a business training program in which the candidate will be exposed to the various aspects of financial institutions and operations. The candidate may elect courses in Accounting, Money and Banking, Economics, Business Law, Investments, Bank Organization, Real Estate, etc. Students with a background in these courses are needed to staff positions in financial institutions and related businesses.

Job Opportunities

19.75

Graduates will find employment as an assistant to the credit analyst, trust officer, supervisor of financial services, or any of the many positions in the various banks and financial institutions.

There are a wide range of jobs from which a two-year college graduate can choose. Banks need people to work in their various departments where all types of businesses are advised as to the types of financing available.

BANKING AND FINANCE TECHNOLOGY

Course No.	Course	Code	Lec. Hrs.	Lab Hrs.	Cr. Hrs.
	FIRST QUARTER				
Engl 0111	Contemp. Writing Skills I	G	5	0	4
Math 0105	Business Math	В	5	0	4
BusL 0250	Business Law I	В	4	0	4
Acct 0101	Accounting I	В	3	4	4
	Technical Electives	Т	2-3	3	2-3
			19-20	7	 18-19
	SECOND QUARTER				
Engl 0112	Contemp. Writing Skills II	G	5	0	4
Acct 0102	Accounting II	В	3	4	4
RMMT 0227	Credit and Collections	T	5	0	4
	Technical Electives	Т	4-6	4	4-6
			— 17-19	8	 16-18
			17-19	0	10-10
	THIRD QUARTER				
Engl 0115	Composition and Mass Comm.	G	5	0	4
EDPT 0101	Basic Language	Т	3	2	3 5
RMMT 0301	Principles of Management	В	4	0	
	Technical Electives	T	6-8	6	6-8
			18-20	8	 18-20
	FOURTH QUARTER				
Engl 0122	Technical Writing I	G	4	0	4
Econ 0101	Principles of Economics I	В	5	0	4
Psyc 0131	Human Adjustment	G	3	0	3
	Technical Electives	Т	6-8	6	6-8
			17-19	6	17-19

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	FIFTH QUARTER				
Psyc 0101	Principles of Psychology	G	- 5	0	,4
Econ 0102	Principles of Economics II	В	5	0	4
	Technical Electives	Т	9-11	6	9-11
			_	_	_
			19-21	6	17-19
	SIXTH QUARTER				
Soci 0101	Principles of Sociology	G	5	0	4
RMMT 0302	Personnel Management	В	3	0	3
	Technical Electives	Т	8-10	8	9-11
	•		16-18	8	16-18

TECHNICAL ELECTIVES

Course No.	Course Name	Credit Hrs.
BANKING.	REAL ESTATE AND FINANCE	
BAFT 0210		4
BAFT 0211	•	-
BAFT 0212		4
BAFT 0213		4
BAFT 0214		4
BAFT 0215	. –	4
BAFT 0101	· · · · · · · · · · · · · · · · · · ·	3
BAFT 0102		3
BAFT 0105	•	3
BAFT 0106		3
BAFT 0202	•	4 4 4 4 3 3 3 3 4 4 4 3
BAFT 0204		4
BAFT 0206		4
BAFT 0208		3
DATA PRO	CESSING	
EDPT 0103	COBOL I	4
EDPT 0201		4 3
ACCOUNT	ING	
Acct 0104	Tax Accounting	4
Acct 0205		4 3 3
Acct 0242		3
NOTE: Stu	dents earning an Associate Degree must success te a minimum total of forty-five (45) credit	fully com- hours ir

technical electives.

DATA PROCESSING AND COMPUTER TECHNOLOGY

The Data Processing and Computer Technology Associate Degree Program at Shawnee State Community College is designed to meet the manpower demand of industries, government, and educational institutions. In addition to theoretical fundamentals, practical aspects of data processing are emphasized. Hands-on opportunity is provided and encouraged. Graduates of this program will be fully prepared to enter employment as staff members (computer programmers or operators) in computer installations and application departments or enroll in a four-year program as a fully accredited junior. Graduates of this technology receive an associate degree in Applied Business.

Job Opportunities

PROGRAMMER — Works closely with systems analysts to define problems, analyze the input data and output report requirements, and prepare a program of instructions which the computer can follow to solve the problem.

SYSTEMS ANALYST — Develops ordered methods for data collection, processing, and reporting.

DATA PROCESSING MANAGER — Plans, coordinates and directs all data processing activities for organization; supervises computer center and punched card installations.

Other positions are available to the graduate technician after several years of experience.

DATA PROCESSING AND COMPUTER TECHNOLOGY CURRICULUM

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
140.	Course				
▲# ###################################	FIRST QUARTER	· · · · · · · · · · · · · · · · · · ·	Far est S an Joseph	ONICALD POLICE	n d 40 atmos a
	Contago, Writing Skill			1.0:	. V
	Martin Property of the Control of th	and the Barrie			

EDPT OU	HINE STAIR Process				
COT SUBSE	TENTO: SEP LIFER T 100005			_	
			17	10	18
	SECOND QUARTER			-	265
					-1
PROCESSION.	Accounting w	B	5	4	4
*Math	Math	_	ა - 3		
Spch 0101	Speech	G	3	0	3
Opon onon	Оросси	. —	_	_	_
			19	8	19
	THIRD CHARTER				
	THIRD QUARTER		e significario e Economica	inggering i Salah Masak	
511	Comp. & Mass Comm.	4.		- 3	7
	Systems Accounting.	8	4	n in Africa	ominia∰oj. A
	COBOLII	*O QUI	north to	4	4
	Führen IV-austalische	MANAGEMENT OF	4.13	4	€ 4
W. P. Mary Law 1	(SERVICE)				_
			18	10	19

Course Course C	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
FOURTH QUARTER				
Engl 0121 Technical Writing I	G.	3	0	3
Soci 0101 Principles of Sociology	G	5	0	4
Bust 0250 Business Law I	B T	4 3		4
EDPT 0105 Systems Analysis & Design EDPT 0106 RPG II Language	Ť	3	4	4
		— 18	- · 7	 19
			-	
FIFTH QUARTER				
RMMT 0301 Principles of Management	В	4	0	. 4
Econ 0101 Principles of Economics I EDPT 0201 Computer Operations	В	5	0	4
Management	Т	3	0	3
BERT 0202 Busi Comp. Projects				
EIPT 0203 Computer Application				
		17	8	18
SIXTH QUARTER				
Spch 0102 Speech II	G	3	0	3
Psyc 0101 Principles of Psychology	G	5	0	4
EDET 0204 AUS COMPANIE AND	, T.,	* 10		734
Business Data Systems & Communications	т	2	3	3
Business Elective	•	2 2	3	3-4
OR		_	_	
EDPT 0261 Accounting with D.P.		•	_	
Application		3	3	<u>4</u>
		14-15	9	16-17

*Students who are planning to continue their education toward a four-year degree should have two additional Math classes — Calculus I, and Calculus II.

**Math sequence for Data Processing: Basic Algebra, College Algebra I, College Algebra II, Trigonometry and Analytic Geometry or Calculus I — Advisor to determine math sequence.

Students may take any math sequence from the above list as long as they have 8 credit hours and 10 contact hours for the two year degree.

SECRETARIAL TECHNOLOGY

With Majors In

Executive Secretarial (Shorthand Required) General Secretarial (Non-Shorthand Program)

Students who have completed three quarters of work in the EXECUTIVE SECRETARIAL MAJOR may have the opportunity to specialize in medical or legal secretarial work their last three quarters of study, if enough in the class want it to warrant the formation of these extra classes.

Job Opportunities

Positions available after completion of one of the Secretarial

GENERAL SECRETARY - Is qualified to fill a broad range of office positions which require technical skills. She will not be trained for shorthand dictation but will be qualified as a machine transcriptionist

EXECUTIVE SECRETARY — Has a high degree of stenographic speed and accuracy. Responsible for supervision of other clerical personnel. Usually handles all types of correspondence and handles private and confidential reports.

MEDICAL SECRETARY - Prepares medical charts and reports for doctors or hospital personnel, utilizing knowledge of medical terminology. Takes dictation in medical terminology.

LEGAL SECRETARY — Prepares legal papers and correspondence of legal nature, such as summonses, complaints, motions, and subpoenas. Takes dictation in legal terminology.

There are advancement possibilities after several years of experience. The secretarial technician can advance to the highest position in the secretarial field. She serves as an administrator of the entire clerical department of an organization, or as the private secretary to the president of a corporation.

FIRST YEAR CURRICULUM **GENERAL AND EXECUTIVE SECRETARIAL MAJORS**

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	FIRST QUARTER				
Engl 0111 Math 0105 RMMT 0101 ExST 0101 OR	Contemp. Writing Skills I Business Mathematics I Introduction to Business Typing I	G B B T	5 5 4 2	0 0 0 3	4 4 3 3
ExST 0102 *ExST 0111 OR	Typing II Shorthand I	T T	2 3	3 2	3 3
*ExST 0112	Shorthand II	Т	3 - 19	2 - 5	3 17
	SECOND QUARTER				
Engl 0112 ExST 0102 OR	Contemp. Writing Skills II Typing II	G T	5 2	0 3	4 3
ExST 0103 *ExST 0112 OR	Typing III Shorthand II	T T	2 3	3 2	3 3
*ExST 0113 Acct 0101 Soci 0101	Shorthand III Accounting I Principles of Sociology	T T G	3 3 5	2 4 0	3 4 4
			18	9	18

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	THIRD QUARTER				
Engi 0115	Composition & Mass Comm.	G	5	0	4
ExST 0120	Business Machines I	Ť	3	ō	3
ExST 0221	Dictation & Transcription I	T	3	2	3
ExST 0103 OR	Typing III	Т	2	3	3
ExST 0104	Typing IV	Т	2	3	. 3
*ExST 0113 OR	Shorthand III	Т	3	2	3
*ExST 0214	Shorthand IV	Т	3	- 2	3
ExST 0231	Records Management	T	3	ō	3
			19	7	19

SECOND YEAR CURRICULUM GENERAL AND EXECUTIVE SECRETARIAL MAJORS

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	FOURTH QUARTER				
ExST 0121	Business Machines II	Т	2	3	3
BusL 0250	Business Law I	В	2 4	0	4
ExST 0222	Dictation & Transcription II	T	3	2	3
*ExST 0214 OR	Shorthand IV	Т	3	2	3
*ExST 0215 OR	Shorthand V	T	3	2	3
ExST 0105	Typing ♥	Т	2	3	3
ExST 0241	Secretarial Practices I	Т	3	2	3
			17	12	19
	FIFTH QUARTER				
ExST 0242	Secretarial Practices II	т	3	2	3
Spch 0101	Speech I	Ġ	3	ō	
Psyc 0101	Principles of Psychology	G	5	Ō	3 4
*ExST 0215 OR	Shorthand V	Т	3	2	3
*ExST 0216	Shorthand VI	T	0	3	1
Econ 0101	Principles of Economics I	В	5	0	4
		7		_	_
			16-19	4-5	15-17
	SIXTH QUARTER				
Psyc 0173	Human Growth & Development	В	3	0.	4
	Personnel Management	В	3	0	3
Acct 0110	Payroll Records & Accounting	T	2	3	3
ExST 0243	Secretarial Practices III	Т	0	15	-5
			8	18	15
*General Secretarial majors must elect basic business courses instead of shorthand.					

instead of shorthand.

Accounting Substitution

Basic Accounting (Acct 0100), which is for CAREER ORIENTED STUDENTS ONLY, may be substituted for Acct 0101 (Accounting I). This substitution must be approved by the secretarial advisor.

Previous Typing and Shorthand Training

Students who have had prior instruction in typing and shorthand before coming to Shawnee State Community College may enroll automatically in Shorthand II and/or Typing II.

MEDICAL AND LEGAL SPECIALIZATION

If enough of the EXECUTIVE SECRETARIAL MAJORS want to specialize in legal and medical to warrant the formation of these classes, their last three quarters would adhere to the following format:

MEDICAL SPECIALIZATION

LEGAL SPECIALIZATION

Course No.	Course	Code	Class Hrs.	Lab Hrs.	•••	Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	FOURTH QUARTER						FOURTH QUARTER				
MDST 0241	Medical Secretarial					LgST 0241		_			
	Practices I	T	2	3	3	BusL 0250	Legal Secretarial Practices I Business Law I	Ţ	2	3	3
Bust 0250		В	4	0	4	LgST 0111		i T	4	0	4
MDST	Medical Shorthand I	Т	2	3	3	LgST 0221	Legal Dictation & Trans. I	+	2	0 3 3	3
MDS1 02211	Medical Dictation &					LgST 0223	Legal Terminology & Judicial	,	2	3	3
MDST 0000	Transcription I	Ţ	3 3	2 0	3	•	Procedures I	т	2	3	•
WIDS1 0223	Medical Terminology I	G		0	3		General Studies Elective	Ġ	2 3	0	3 3
	General Studies Elective	G	0	0	3		21001170	u	_		3
				_					15	12	19
			14	8	19	_			10	12	19
	FIFTH QUARTER						FIFTH QUARTER				
	Medical Secretarial					BusL 0260	Business Law II	В	4	0	Λ
10001 0242	Practices II	_	_			Spch 0101	Speech I	Ğ	3	ŏ	3
Spch 0101	Speech I	1	2	3	3	Psyc 0101	Principles of Psychology	Ğ	5	Õ	4
	Principles of Psychology	G	3	0	3	LgSt 0224	Legal Terminology & Judicial		•	•	•
MDST 0224	Medical Terminology II	G T	5 2	0	4		Procedures II	Т	2	3	3
MDST 0112	Medical Shorthand II	÷	2	0 0 3 3	3	LgST 0112	Legal Shorthand II	Т	2	3	3
	onormana n	'	2	3	3				_	_	
			14	9	 16				16	6	17
			17	9	10		OLYTH OLLAP				
:	SIXTH QUARTER						SIXTH QUARTER				
MDST 0222 I	Medical Dictation & Trans. II	т	5	0	4	LgSt 0222	Legal Dictation & Trans. II	T	5	0	4
RMMT 0302 I	Personnel Management	в	3	Ö	4 3	HMM1 0302	Personnel Management	В	3	0	3
ExST 0243	Secretarial Practices III	Ť	0 -	15	5 5	EXST 0243	Secretarial Practices III	Τ·	0	15	5
		•	_		_				_		_
			8	15	12				8	15	12

RETAIL MARKETING MANAGEMENT TECHNOLOGY

Retailing is the last link in the chain that reaches from the producer or manufacturer to the consumer. It is so closely related to the entire business community that it readily provides an accurate index for judging the health of the economy. The retailer provides an outlet for merchandise and customer services. He is responsible for presenting new articles that may create a new market, as well as being responsible for supplying customer needs.

The retailing industry is particularly attractive because of the variety in the types of work performed by middle managers. Buying, stock control, stock storage, promotion, marketing, accounting, personal management, and legal procedures for retailing are among the many functions a retail mid-manager performs. As advancement occurs, the mid-manager increases his responsibility and authority to become an important part of the management team. In multi-unit companies, he may become the manager of a branch organization. He is constantly working with people inside and outside his company to ensure constant development of both sales and profits.

Job Opportunities

Positions available in retail marketing-management technology: DEPARTMENT MANAGER — Supervises and coordinates activi-

ties of workers in department stores and chain stores. Schedules work hours and assigns duties of workers. Orders merchandise, supplies, and equipment.

BUYER — Purchases merchandise for resale; selects and orders merchandise from showings of manufacturing representatives, basing selection on nature of clientele, demand for specific merchandise, and experience as buyer.

ASSISTANT BUYER — Verifies quantity and quality of stock received from manufacturer. Authorizes payment of invoices or return of shipment. Approves advertising copy for newspaper.

STORE MANAGER — Manages retail store, performing following duties personally or through subordinates: hires, trains and discharges employees, plans work schedule and supervises workers to ensure efficient and productive performance of job.

TRAFFIC MANAGER — Sees to it that all merchandise reaches the store by the most efficient routing and carrier services; that its receipts are recorded and the records dispatched to the buyer and the inventory control department.

Positions available to the graduate after several years of experience are: district manager, merchandise manager, assistant store manager, personnel manager, recruiter, and manager of a large store.

RETAIL MARKETING MANAGEMENT CURRICULUM

111111111111111111111111111111111111111					
Course No.	Course	Code	Class Hrs.		Cr. Irs.
Engl 0111 Math 0105 Acct 0101 RMMT 0101 EDPT 0101	FIRST QUARTER Contemp. Writing Skills I Business Math Accounting I Intro. to Businesss Intro. to Data Processing	G B B T T	5 5 3 4 2 —	0 0 4 0 3 -	4 4 4 3 3 —
Engl 0112 RMMT 0102 Acct 0102 Spch 0101 Econ 0101	SECOND QUARTER Contemp. Writing Skills II Marketing Accounting II Speech I Prin. of Economics I	G T T G B	5 5 3 3 5 —	0 0 4 0 0 -	4 4 3 4 —
Engl 0115 Econ 0102 RMMT 0103	THIRD QUARTER Print of Economics II Intro. to Retailing Salesmanship	T G B T T	2 5 5 5 3 —	3 0 0 0 2 -	3 4 4 4 3 —
Engl 0122 Bust, 0250	FOURTH QUARTER Prin. of Sociology Retail Case Studies Technical Writing I Business Law I Sales Promotion	G T G B T	5 3 5 4 3 —	0 2 0 0 3 5	4 3 4 4 4 —
Psyc 0101 Busl 0260 RMMT 022 RMMT 030 Spch 0102	7 Credit and Collection 1 Prin. of Management	G B T T G	5 4 5 4 3 —	0 0 0 0 -	4 4 4 4 3 —
RMMT 022 RMMT 023 RMMT 031	SIXTH QUARTER 2 Personnel Management 3 Retail Buying 5 Advertising 0 Retail Internship 1 Special Problems in Retailing	T T T T	3 4 3 0 0 - 10	0 0 2 25 6 — 33	3 4 3 5 2 —

NOTES

ALLIED HEALTH TECHNOLOGIES

(ASSOCIATE OF APPLIED SCIENCE DEGREE)

Associate Degree Nursing
Dental Hygiene
Medical Laboratory
Radiologic Technology
Respiratory Technology

CERTIFICATE PROGRAMS

(One Year)

Emergency Medical Technician — Paramedic
Respiratory Therapy Technician
Practical Nursing

ALLIED HEALTH TECHNOLOGIES ADMISSION PROCEDURES

Dental Hygiene Medical Laboratory Radiologic Technology Respiratory Therapy Technician

- Student completes the application and sends it to Shawnee State Community College, 940 Second Street, Portsmouth, Ohio 45662. It is suggested that applicants file an application before March 15. A fee of \$15.00 which is non-refundable should accompany the completed application.
- Student completes the transcript request form and gives it to his high school counselor. The high school counselor will then forward the transcript to the college. Also, transcripts of previous college work should be sent to the college.
- Student has two persons (who are not relatives) send a letter of recommendation to Shawnee State. These letters should be sent to the appropriate program director, 940 Second Street, Portsmouth, OH 45662.
- 4. Student writes a brief description of his abilities and background, including outstanding accomplishments, and explains why he wants to take the program. This should not exceed three type-written pages. The College would appreciate receiving a recent picture with the description. Both should be sent to the appropriate program director, 940 Second Street, Portsmouth, OH 45662.
- Student takes the American College Test (ACT) and has scores forwarded to the College. Other tests may be required depending on program.
- Student is interviewed by a member of Student Services and Program Director.
- Completion of Physical Examination is required by the College. (Consult the Program Director for more information concerning the Physical Examination).

- 8. Student should meet the following requirements to be eligible for the program. The applicant should have:
 - (a) High school average of at least 2.5 on a 4.0 scale.
 - (b) Completed algebra, biology, and chemistry (high school physics would also be helpful for the Respiratory Therapy Program).
 - (c) A natural science score of 15 or more on the ACT.
 - (d) Satisfactory health (physical examination required).
 - (e) If the student meets the above criteria, then an interview with the selection panel is scheduled. Each of the above Allied Health Programs can accept only a limited number of students, therefore, a rating system will be utilized to make final determination of placement in the program. This rating system will take into account the high school average; average grades in algebra, biology, and chemistry; ACT scores; the letters of recommendation; and the panel interview. If all qualified students are not admitted to the class, then an alternate list will be established. Alternates will be admitted if one or more of the original group is unable to enroll.
- When officially admitted, the applicant will purchase the appropriate uniform and Professional Liability Insurance.

DENTAL HYGIENE

Working under the supervision of a dentist, the dental hygienist checks and cleans teeth, charts tooth conditions, takes radiographs, applies fluoride, imparts dental health information, sterilizes instruments, and performs other chairside and office duties. Upon successful completion of this two-year program, the student is eligible to take a licensing examination prescribed by the board of dental examiners of the state in which she chooses to practice.

Accreditation

The Dental Hygiene Program is accredited by the American Dental Association and the Ohio Dental Board.

Job Opportunities

Dental hygienists practice in the following areas:

FOR DENTISTS IN PRIVATE PRACTICES

SCHOOL SYSTEMS — Primarily concerned with the proper care of children's teeth. Inspect student's teeth and reporting findings to a supervising dentist. May also instruct students in proper care of teeth, give demonstrations of the proper use of a toothbrush, and present talks on nutrition and its effects on dental health.

PUBLIC HEALTH WORK OR PRIVATE WELFARE AGENCIES — Performs duties similar to those of the school hygienist. However, they work mainly with adults.

INDUSTRY OR UNION-SPONSORED CLINICS — Give regular dental service to plant employees, providing such care as examining and cleaning teeth and charting cavities.

HOSPITALS AND CLINICS — Concerned primarily with the special oral health problems of the bedridden and chronically ill.

Hygienists with advanced degrees may be employed in research or may teach in dental hygiene educational programs that help students to prepare for the profession.

DENTAL HYGIENE CURRICULUM

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	FIRST QUARTER				
Engl 0111	Contemp. Writing Skills I	G	5	0	4
Chem 0121	Inorganic Chemistry	B T	3 2	3 6	4 4
DtHy 0121 Biol 0290B	Clinical Dental Hygiene I Anatomy & Physiology I	В	4	3	5
DtHy 0113	Tooth Morphology I	Ť	Ó	3	1
			14	 15	18
	SECOND QUARTER				
Engl 0112	Cont. Writing Skills II	G	5	0	4
Chem 0122	Organic Chemistry	B T	3 2	3 6	4
DtHy 0122 Biol 0291B	Clinical Dental Hygiene II Anatomy & Physiology II	В	4	3	5
DtHy 0114	Tooth Morphology II	Т	0	3 3	4 5 1 1
DtHý 0101A		T	1	0	
DtHy 0111	Head & Neck Anatomy I	В	2	0	2
			17	15	21
	THIRD QUARTER				
Engl 0115	Comp. & Mass Comm.	G	5	0	4
DtHy 0202	Periodontics	T T	3 1	0 3	3 2
DtHy 01016	Radiology II Gen. & Oral Histology	,	•	5	_
D.1.1, 0.102	and Embryology	Т	3	0	3
DtHy 0123	Clinical Dental Hygiene III	T	1 2	8	4 2
DtHy 0112	Head & Neck Anatomy II	В	<u>-2</u>	0	
			15	11	18

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
DtHy 0124 DtHy 0103 DtHy 0205	SUMMER QUARTER Clinical Dental Hygiene IV Dental Materials Dental Health Education	T T T	2 3 3 - 8	12 6 0 — 18	6 5 3 — 14
Biol 0235A DtHy 0201 DtHy 0203 Soci 0101 DtHy 0125	FOURTH QUARTER Microbiology General & Oral Pathology Nutrition Sociology Clinical Dental Hygiene V	B T T G T	3 3 5 1 —	3 0 0 0 12 —	4 3 3 4 5 —
DtHy 0204 DtHy 0206 DtHy 0126 Spch 0101	Pharmacology & Anesthesiology Public Health Clinical Dental Hygiene VI Speech	B T T G	4 3 1 3 —	0 0 12 0 —	4 3 5 3 — 15
DtHy 0127 Psyc 0101	SIXTH QUARTER Clinical Dental Hygiene VII Principles of Psychology Electives	T G	1 5 —	12 0 — 12	5 4 3 — 12

After the first quarter courses, all subsequent basic and technical courses are cosely related and, therefore, must be taken in sequential order.

Please Note: Only those students that have been officially accepted into the program or received program director approval may take the courses beginning with the DTHY prefix.

In order for a student to continue in the dental hygiene program, the following criteria must be met:

The student must be in good standing; that is, have received a minimum of a C grade in dental hygiene courses and have a minimum of 2.0 GPA overall.

If the student has not met the above criteria, the following procedure must be followed in order for the student to gain readmission.

The student who has received a grade of D or less in any course or has less than an overall 2.000 GPA must petition for readmission into the dental hygiene program for the next quarter. This will require an interview with the director of the program and also a designated member of the student services staff. After the interviews, the decision will be made as to whether the student can continue in the dental hygiene program.

Dismissal from the program does not effect the student's continued enrollment in the college if college academic standards are met.

Expanded Functions Program

The Expanded Functions Program is a two-quarter program consisting of DtHy 0250 and DtHy 0251. This program trains the dental auxiliary to perform placement of restorations, rubber dam, dental bases, and to utilize four-handed dentistry techniques under a dentist's supervision. The student must also file for admission into this program. (See Program Director)

MEDICAL LABORATORY TECHNOLOGY — AD

The exciting and newest member of the Medical Laboratory team is the Medical Laboratory Technician; an individual who performs, efficiently and dependably, rather complicated laboratory procedures in areas of Hematology, Serology, Blood Bank, Chemistry, Microbiology, and other areas pertinent to the Clinical Laboratory upon graduation. He developes valuable data to be utilized by qualified physicians in determining the presence, as well as the implications pertaining to the cause of disease. Specific tasks required of those enrolled in this technology include collecting of blood samples, analysis of the constituents of blood and body fluids, preparation and staining slides for cellular and chemical components, concentration of specimens for parasitological study, microscopic examinations of blood, urine and other body fluids, and blood grouping.

The laboratory procedures are implemented in both the teaching laboratory on the campus and the affiliated hospital laboratories, focusing upon basic skills, the understanding of principles, and the mastering of laboratory procedures.

Accreditation

Program is fully accredited by the American Medical Association, Committee on Allied Health Education and Accreditation in collaboration with the American Society of Clinical Pathologists (AMA/CAHEA, ASCP).

Job Opportunities

Graduates will qualify for employment opportunities in hospital laboratories, independent laboratories, clinics, research institutes, public health facilities, industrial or pharmaceutical laboratories, and environmental laboratories.

The technician upon graduation and employment acceptance, may find a tendency to specialize in blood banking, hematology, special chemistry, research and development, or quality control programs.

In addition to the geographic location of the employment, salaries are commensurate with ability, motivation, and knowledge of clinical laboratory.

Certification

Graduates of the program qualify to write the National Registry Examinations to become certified as MLT-AD (ASCP).

Scholarship

A full tuition scholarship is awarded each year to a recipient with academic achievement and excellence. Applications are available at the Financial Aid Office.

MEDICAL LABORATORY CURRICULUM

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
•	FIRST QUARTER				
Engl 0111	Contemp. Writing I	G	5	0	4
*Math 0108	Allied Health Math I	В	5	0	4
Chem 0121	Inorganic Chemistry	В	3	3	4
Biol 0290B	Anatomy & Physiology I	В	4	3	5
MLTC 0111	Med. Tech. Orientation	Т	1	1	1
			_	_	. —
			18	7	18
	SECOND QUARTER				
Engl 0112	Contemp. Writing II	G	5	0	4
*Math 0109	Allied Health Math II	В	5	0	4
Chem 0122	Organic Chemistry	В	3	3	4
Biol 0291B	Anatomy & Physiology II	В	4	3	5
MLTC 0112	Med. Tech. Orientation II	Т	1	1	1
				_	_
			18	7	18

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
Biol 0235A	Hematology I	. В В Т Т	3 3 2 2 —	3 3 6 3 —	4 4 4 3 —
Spch 0101	FOURTH QUARTER Technical Writing Instrumentation Speech Clinical Bacteriology	G T G T	4 2 3 3 —	0 6 0 6 -	3 4 3 5 —
MLTC 0121 MLTC 0214	FIFTH QUARTER Clinical Chemistry I Hematology II Parasitology İmmunoserology Psychology	T T T G	2 2 1 3 5 —	6 6 2 3 0 —	4 4 1 4 4 —
MLTC 0213 Soci 0101 MLTC 0203 MLTC 0220 MLTC 0215	Seminar	T G T T	2 4 2 1 1 —	6 0 6 0 2 —	4 4 1 1 —
MLTC 0204 MLTC 0205	SEVENTH & EIGHTH QUARTERS Internship Special Problems	T T	0 2 —	40 0 - 40	13 2 — 15

*Students planning to continue their education beyond an Associate Degree are advised to register for College Algebra I and II instead of Allied Health Math I and II.

Please Note:

- Only those students who have been officially accepted into the program or received program director approval may take the courses beginning with the MLTC prefix.
- Eligibility for internship requires at least a grade of C or 2.0 accumulative point average, as well as a C or 2.0 average in technical courses (courses with MLTC prefixes).

RADIOLOGIC TECHNOLOGY

The Radiologic Technology curriculum will prepare the graduate as a Radiographer. The Radiographer works under the supervision of a medical radiologist or physician in hospital radiology departments, clinics, commercial x-ray laboratories, or Doctor's offices. The responsibility of the radiographer is to produce radiographic (x-ray) film of the highest diagnostic quality of any designated area of the human body. It is from this film that the radiologist makes his interpretation.

Curriculum for this program covers eight academic quarters. The first four academic quarters are designed to provide the students with mathematics, basic science, general education courses, supporting technical courses, and specialized courses in radiography. The second year of the program consists of participation in clinical education scheduled in the affiliated hospitals along with advanced radiologic technology courses.

Experience in the radiology departments of the affiliated hospitals provides the opportunities for the practical application of knowledge learned in the college classroom. This experience in the hospital is a vital part of the program, since it enables the student to assist in the handling of sick and injured patients as they undergo a wide variety of radiographic examinations.

Upon satisfactory completion of the course requirements, the graduate will receive the Associate in Applied Science Degree and is eligible to apply for examination by the American Registry of Radiologic Technology.

RADIOLOGIC TECHNOLOGY CURRICULUM

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	FIRST QUARTER				
Rd1T 0200	Basic Patient Care	Т	. 3	2	3
Rd1T 0101	Radiologic Technology I	Ţ	3 4	2 3	3 5
Biol 0290B Engl 0111	Anatomy & Physiology I Contemp. Writing Skills I	B G	5	0	4
Math 0108	Allied Health Math I	B	5	ŏ	4
			_	_	_
			20	7	19
	SECOND QUARTER				
Rd1T 0102	Radiologic Technology II	Т	2	2	2
Rd1T 0201	Radiographic Exposure	T	3	2 3	3
Biol 0291B	Anatomy and Physiology II	B G	4 5	3 0	5 4
Engl 0112 Psci 0105	Contemp. Writing Skills II Physical Science	B	4	3	5
	,.	_	_	_	_
			18	13	19
	THIRD QUARTER				
Rd1T 0103	Radiologic Technology III	Т	3	2	3
Phys 0202	Physics II (Electricity)	В	3	3	4
Chem 0121	Inorganic Chemistry	В	3	3	4
Engl 0115 Rd1T 0211	Comp. & Mass Comm. Clinical Experience I	G T	5 0	0 16	4 2
Nu 11 0211	Chilical Experience I	Ţ	_		_
			14	24	17

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
Rd1T 0104 Rd1T 0111 Psyc 0101 Engl 0121 Rd1T 0212	FOURTH QUARTER Radiologic Technology IV Radiologic Physics Principles of Psychology Technical Writing Clinical Experience II	T T G G	3 3 5 3 0 -	2 3 0 0 16 — 21	3 4 4 3 2 —
Rd1T 0105 Rd1T 0213 Rd1T 0221	*FIFTH QUARTER Radiologic Technology V Clinical Experience III Seminar I (Processing)	T T T	4 0 2 - 6	0 32 0 — 32	4 6 2 —
Rd1T 0106 Rd1T 0214 Rd1T 0222	SIXTH QUARTER Radiologic Technology VI Clinical Experience IV Seminar II	T T T	4 0 2 —	0 32 0 - 32	4 6 2 —
Rd1T 0107 Rd1T 0215 Rd1T 0223 Soci 0101	SEVENTH QUARTER Radiologic Technology VII Clinical Experience V Seminar III Principles of Sociology	T T T G	4 0 2 5 —	0 24 0 0 - 24	4 4 2 4 —
Rd1T 0108 Rd1T 0216 Rd1T 0224 Spch 0101	EIGHTH QUARTER Radiologic Technology VIII Clinical Experience VI Seminar IV Speech I	T T G	4 0 2 3 —	0 24 0 0 - 24	4 4 2 3 — 13

After the first quarter courses, all subsequent basic and technical courses are closely related and, therfore, must be taken in sequential order.

Please Note: Only those students that have been officially accepted into the program or received program director approval may take the courses beginning with the Rd1T prefix.

In order for a student to continue in the Radiologic Technology Program, the following criteria must be met:

The student must be in good standing; that is, have received a minimum of a C grade in radiologic courses and have a minimum of 2.0 GPA overall.

If the student has not met the above criteria, the following procedure must be followed in order for the student to gain readmission.

The student who has received a grade of D or less in any course or had less than an overall 2.000 GPA must petition for readmission into the Radiologic Technology Program for the next quarter, this will require an interview with the director of the program and also a designated member of the student services staff. After the interviews, the decision will be made as to whether the student can continue in the Radiologic Technology Program.

Dismissal from the program does not effect the student's continued enrollment in the college if college academic standards are met.

NOTES

RESPIRATORY THERAPY TECHNICIAN/TECHNOLOGY PROGRAMS

Respiratory Therapy is an allied health specialty employed under medical direction in the treatment, management, control, diagnostic evaluation, and care of patients with deficiencies and abnormalties associated with the process of breathing. At present the field of respiratory therapy has two levels of practioners, the therapist and technician levels. The respiratory therapist is a graduate of a two-year educational program, the respiratory therapy technician is a graduate of a one-year program. Respiratory therapists and technicians are respected members of the medical community involved in a wide variety of life-saving and life-supporting situations. Working side by side with physicians, nurses, and others on the health care team they care called upon to treat patients ranging in age from newborns to senior citizens. Their duties range from the daily administration of such therapies as oxygen administration, humidification and nebulization, and postural drainage of lung secretions to the use of highly sophisticated equipment, monitoring devices, and techniques in around-the-clock care to individuals who otherwise would not be able to survive such life threatening conditions as head injuries and chest wounds. Other practitioners spend all or part of their time working in laboratories where they help evaluate the type and extent of a patients illness and the effectiveness of the patients current treatment. Other practitioners work in specialized areas of health care including education, management, home care, sales, research, and specialized areas of patient care such as care of the newborn infant.

Respiratory Therapy Technician Program Description

The one-year (four-quarter) curriculum of the Respiratory Therapy Technician Program is designed to prepare selected individuals to qualify as contributing members of the health care team. Individuals enrolled in the program participate in classroom and laboratory learning experiences at the college in order to gain the conceptual understanding of the practice of respiratory therapy. Students also participate in clinical learning experiences at hospitals in this area to develop their clinical skills through application of these concepts.

After successful completion of the program and one year of profession-related employment, graduates are eligible to take the certification examination administered by the National Board for Respiratory Therapy. Successful completion of that examination entitles the individual to the Certified Respiratory Therapy Technician (C.R.T.T.) credential.

Respiratory Therapist Program Description

In 1980 the Ohio Board of Reagents approved the creation of a second year of formal education in respiratory therapy at Shawnee State Community College to further the educational opportunities for the qualified respiratory therapy technician. To be considered for admission into the second year of study the applicant must have successfully completed the first four-quarter sequence of study, received the Certificate of Achievement, and completed one year of full-time profession-related employment. The graduate of the two-year (eight quarter) program will receive the Associate of Applied Science degree and become eligible for the registry examinations administered by the National Board for Respiratory Therapy. Successful completion of these examinations (two) entitles the individual to the Registered Respiratory Therapist (R.R.T.) credential. Further educational opportunities are also available to the graduate from the Bachelor of Science or Masters degree from Ohio University.

Accreditation

The Respiratory Therapy Technician Program is fully accredited by the American Medical Association. As of November, 1980 accreditation by the American Medical Association was pending for the two-year Respiratory Therapist Program.

Employment Opportunities

Regardless of which level of education or credentialing you choose to pursue, you will find many employment opportunities in the field. The profession has grown so quickly since its inception in the late 1940s that demand for manpower has exceeded supply, making the respiratory care practitioner's talents a precious commodity in most medical institutions. In addition, many clinics, nursing homes, and home care programs are beginning to realize the potential benefits of having a trained respiratory therapist or technician on staff. Coupled with the ever-increasing number of cardiopulmonary disorders being diagnosed, these demands ensure that individuals who enter the profession will enjoy good career opportunities.

PROGRAM ACADEMIC REQUIREMENTS

All students enrolled in the Respiratory Therapy Technician/ Therapist Program:

- 1. Must receive a letter grade of "C" or better in all program related courses. These courses are identified with a RpTT prefix. If the student fails to receive a "C" in a RpTT course, he/she will not be permitted to continue in the program.
- Must receive a letter grade of "C" or better in all academic courses required for program completion. This requirement refers to those courses in the curriculum which do not have a RpTT prefix. If the student fails to receive a letter grade of "C", he/she must obtain permission from the Program Director in order to continue in the program. In addition, he/she will be required to repeat
- 3. Must maintain a 2.0 cumulative average while enrolled in the program. If the student's average falls below 2.0, the student will be placed on program probation. The student will have one quarter to return his/her average to a 2.0. If the student is not successful, he/she will not be permitted to continue in the program without approval of the Program Director.

RESPIRATORY THERAPY TECHNICIAN/TECHNOLOGY CURRICULUMS

RESPIRATORY THERAPY TECHNICIAN CURRICULUM

RESPIRATORY THERAPY TECHNOLOGY CURRICULUM

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.	Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	FIRST QUARTER						FIFTH QUARTER				
Math 0108	Allied Health Math I	В	5	0	4	Biol 0290	Anatomy and Physiology	В	3	3	4
	Inorganic Chemistry	B	3	3	4	RpTT 0213	Respiratory Procedures III	T	2	3	3
Biol 0200	Anatomy and Physiology	В	4	3	5		,		_	_	_
*RpTT 0101	Intro. to Resp. Therapy	Ŧ	1	0	1				5	6	7
RpTT 0102	Fundamentals of Resp. Care	Т	4	3	5						
RpTT 0110	Clinical Practice I	T	0	4	1		SIXTH QUARTER				
					_	Biol 0291	Anatomy and Physiology	В	3	3	4
			17	13	20	Phys 0201	Physics (Mechanics)	В	3	3	4
	CECOND OLLADIED					RpTT 0214	Clinical Practice V	Ţ	0	8	2
	SECOND QUARTER	_	_	_		RpTT 0215	Respiratory Procedures IV	<u>T</u>	2	3	3
Engl 0111	Contemp. Writing Skills I	G	5	0	4	RpTT 0216	Clinical Practice VI	T	0	8	2
RpTT 0121		T	5	0	5				<u>-</u>	<u></u> 25	15
RpTT 0111		T T	0 4	24 0	6 4				8	25	15
Hp11 0202	Pharmacology	'	4	U	4		SEVENTH QUARTER				
			14	24	<u> </u>	= 10404		_	•		_
			14	24	19	Engl 0121	Technical Writing	G	3	0	3
	THIRD QUARTER					Hp11 0217	Advanced Cardiopulmonary	Т	4	0	4
DoTT 0110	Clinical Practice III	Т	0	24	6	DoTT 0019	and Renal Physiology Resp. Therapy Departmental	1	4	U	4
RpTT 0201		Ť	5	0	5	np11 0210	Organ, and Administration	Т	2	3	3
RpTT 0201	Respiratory Procedures I	Ť	2	3	3	RpTT 0219	3	Ė	2	3	3
Biol 0235A	Microbiology	В	3	3	4	RpTT 0220	• •	т	ō	8	2
B.0. 02007.	Moresialogy	_	_	_	_	1.5.1.0220			_		· _
			10	30	18				11	14	16
	FOURTH QUARTER						EIGHTH QUARTER				
RpTT 0113	Clinical Practice IV	Т	0	32	8	RpTT 0221	Topics in Clinical Medicine	T	3	0	3
	Respiratory Procedures II	Т	3	3	4	RpTT 0222	• .				
	Respiratory Critical Care	. T	2	0	2		Considerations	T	2	0	2
·	•				_	RpTT 0223	Respiratory Therapy Seminar				
			5	35	14	•	(Optional)	Т	2	0	2
							Humanities-Soci. Elective	G	5	0	4
	irse will be offered during the ng of the program. Students wi								10-12	0	 9-11

*This course will be offered during the summer quarter prior to the beginning of the program. Students will be strongly encouraged to enroll in this course at this time to reduce the credit hour load during the Fall quarter and to facilitate their understanding of the program content and the scope of the profession of respiratory therapy.

Please Note: Only those students who have been officially accepted into the program or received approval from the program director make take the courses beginning with the RpTT prefix.

Please Note: Only those students who have been officially accepted into the program or have received permission from the program director may take the courses beginning with the RpTT prefix.

Program is designed to being in the summer quarter. Courses may be taken on a part-time basis to fit the individual students' needs. However, the RpTT 0214, 0215, and 0216 sequence must be taken in the Fall quarter and the RpTT 0219-0220 sequence must be taken in the Winter quarter.

ASSOCIATE DEGREE NURSING

ADMISSION PROCEDURES

- Student completes the application and sends it to Shawnee State Community College, 940 Second Street, Portsmouth, Ohio 45662. It is suggested that applicants file an application before March 15. A fee of \$15.00 which is non-refundable should accompany the completed application.
- Applicant completes the transcript request form and gives it to his high school counselor. The high school counselor will then forward the transcript to the college. All transcripts of post high school courses should be forwarded to the college.
- 3. Applicant has two persons (who are not relatives) send a letter of recommendation to Shawnee State Community College. These letters should be sent to the Director of A.D. Nursing.
- Applicant completes the Biographical Information form furnished by the college and sends it to the Director of A.D. Nursing.
- Applicant takes the American College Test (ACT) and has scores forwarded to the college. A minimum score of 16 should be made in all areas.
- 6. Applicant meets the following high school or G.E.D. requirements.
 - (a) Grade average in high school of at least 2.5 on a 4.0 scale.
 - (b) Completed high school level algebra, biology and chemistry with at least a grade of "C".
 - (Applicants completing these or equivalent course more than seven years prior to admission to the Associate Degree Nursing Program must repeat these or equivalent courses with a grade of "C" or better; or applicants may take and pass standardized tests to waive repeating any one of these required courses.)
 - (c) Applicants completing a G.E.D. must show evidence of ability to be successful in college by taking at least two quarters of college work as a full-time student in addition to high school level courses of algebra, biology and chemistry.
 - (d) Admission requirements may be altered at the discretion of the Admissions Committee.
- Applicants taking college courses prior to acceptance into the nursing program must achieve the grade of "C" in all required non-nursing courses. Applicants achieving lower grades may be admitted with a probationary status.
- Applicant must have all required information on file before interviews will be scheduled. The applicant will interview with the program director and a counselor.
- Following the interview, applicant files will be reviewed by the Admissions Committee. Because the Associate Degree Nursing

- Program can accept only a limited number of students, a rating system will be utilized to make final determination of placement in the program. All information in the applicant's file will be evaluated and rated. The highest rated applicants will be accepted into the program pending the results of their physical examination. Qualified applicants not admitted will be placed on the alternate list.
- 10. Applicants will be accepted into the program pending the results of a physical examination. Along with the acceptance letter, the applicant will receive the physical examination forms, the liability insurance form and information about uniforms and other needed equipment.
 - (a) Results of the physical exam must be on file with the program director before August 1.
 - (b) The professional liability insurance papers must be in the applicant's file by the first day of school.
 - (c) Uniforms and lab coat are to be purchased before school convenes.

PROGRAM REQUIREMENTS

Students must meet all the following criteria in order to proceed into the next nursing course.

- (a) Have a grade of 2.000 or better in the nursing course just
- (b) Have successfully passed required non-nursing courses with at least a grade of 2.00 to that point of time.
- (c) Maintain an accumulative grade point average of 2.000 throughout the Associate Degree Nursing Program.

Students requesting readmission must do so in writing in order to obtain the requirements which are on file with Student Services.

It is expected that students will complete the nursing program in no more than three years.

ASSOCIATE DEGREE NURSING

Associate degree nurses graduating from Shawnee State Community College are qualified to take the Ohio State Board examination for registered nurses, and after successfully passing this examination are capable of providing nursing care at a beginning level in hospitals, nursing homes, doctor's offices and clinics, and selected public health agencies.

Accreditation

The Associate Degree Nursing Program has approval by the Ohio State Board of Nursing Education and Nurse Registration.

ASSOCIATE DEGREE NURSING CURRICULUM

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	FIRST QUARTER				
ADNr 0101	Nursing I	Т	6	6	8
Psyc 0101 Biol 0290B	Principles of Psychology Principles of Anatomy &	G	4	0	4
	Physiology I	В	4	3	5
			_	_	
			14	9	17
	SECOND QUARTER				
ADNr 0102	Nursing II	T	5	6	7
Psyc 0173 Biol 0291B	Human Growth & Devel. Principles of Anatomy &	G	4	0	4
	Physiology II	В	4	3	5
				_	
			13	9	16

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	THIRD QUARTER				
ADNr 0103	Nursing III	Т	5	6	7
Psci 0105	Physical Science	В	4	3	- 5
Engl 0111	Contemp. Writing Skills I	G	4	0	4
			13	9	16
	SUMMER QUARTER				
Biol 0235B	Microbiology I	В	3	4	5
Psyc 0270	Abnormal Psychology	G	5 5	0	5
Engl 0112	Contemp. Writing Skills II	G	5	0	4
			13	4	14
	FOURTH QUARTER				
ADNr 0201	Nursing IV	Τ.	5	6	7
ADNr 0202	Nursing V	Т	. 5	6	7
Soci 0101	Principles of Sociology	G	4	0	4
			14	12	18
	FIFTH QUARTER				
ADNr 0203	Nursing VI	Т	5	6	7
ADNr 0204	Nursing VII	Ť	5	6	7
			10	-	— 14
			10	12	14
	SIXTH QUARTER				
ADNr 0205	Nursing VIII	Τ	6	24	14
Please Note	Only those students that hav	e been o	officially	/ acce	pted

Please Note: Only those students that have been officially accepted into the program or received program director approval may take the courses beginning with the ADNr prefix.

All suggested or equivalent courses listed for the first four quarters must be completed prior to continuing into the second year.

PRACTICAL NURSING

Nursing is considered a personal service to a patient, planned to consider the individual personality as well as the health problem. The focus of practical nursing is to recognize the individual as a unique personality, to maintain body functions and to protect the patient from illness or accidents. In complex nursing situations, the practical nurse functions as an assistant to a physician or registered nurse.

Accreditation

The Practical Nursing Program has full approval by the State of Ohio Board of Nursing Education and Nurse Registration and is accredited by the North Central Association of Colleges and Secondary Schools.

ADMISSION REQUIREMENTS AND PROCEDURES

- A. An applicant for the Practical Nursing Program must have graduated from high school or have successfully completed the GED and must have copies of these records sent to the college. The applicant must send the application with a \$15.00 non-refundable application fee to the college.
- B. In Addition to the above, the applicant should have:
 - 1. A high school average of at least 2.0 on a 4.0 scale.
 - 2. Scored 40 or above in all areas on the "Entrance Examination for Schools of Practical Nursing".
 - Three letters of recommendation from persons other than relatives mailed to the program director. Appropriate forms will be furnished.
 - Completed and forwarded the biographical sketch form to the program director. An appropriate form will be furnished.
 - Participated in a conference with the program director after the required forms have been received by the director.
 - Obtained a grade point average point average of at least 2.0 if previously registered at Shawnee State College.
 - A good foundation in mathematics and science. Algebra, biology, chemistry and general science can be taken at Shawnee State College.

It is important to understand that fulfilling the above criteria does not automatically guarantee the applicant acceptance into the practical nursing program. All interviewd applicants are subsequently ranked. Since the number of qualified applicants exceeds the number of vacancies, the admissions committee reserves and exercises the right to select only those applicants that exhibit the most promise of academic and professional success. Applicants will be accepted on the condition that the required physical examination is satisfactory. This is to be done by the applicant's physican during the month preceding the starting date. An appropriate form will be furnished.

Information concerning professional liability insurance, uniforms and other necessary equipment will be provided in the acceptance letter.

Students requesting readmission will be evaluated on an individual basis and notified of the requirements in writing. The program is to be completed in no more than two consecutive years.

PRACTICAL NURSING CURRICULUM

Course No.	Course		Class Hrs.	Lab Hrs.	Clin. Hrs.	Cr. Hrs.
	FIRST QUARTER					
LPNr 0101 LPNr 0111 Psyc 0101	Body Struc. & Function Practical Nursing I Prin. of Psychology	B T G	4 6 5 — 15	2 4 0 - 6	0 12 0 — 12	4 10 4 — 18
	SECOND QUARTER					
LPNr 0110 *LPNr 0112 *LPNr 0115 Soci 0101	Nutrition Practical Nursing II Practical Nursing V Prin. of Sociology	B T T G	2 8 9 5 —	0 5 5 0 —	0 14 14 0 —	2 6 6 4 — 18
	THIRD QUARTER					
*LPNr 0113 *LPNr 0116	Practical Nursing III Practical Nursing VI	T	12 12 — 24	2 2 - 4	14 14 — 28	8 - 16
	FOURTH QUARTER					
*LPNr 0114	Practical Nursing IV	Т	12	2	21	9
			12	2	21	9

^{*}Half-quarter courses

Please Note: Only those students who have been officially accepted into the program or received program director approval may take the courses beginning with the LPNr prefix.

EMT - PARADEMIC PROGRAM

ADMISSION PROCEDURES

Level I

- Student completes the application and sends it to Shawnee State Community College, 940 Second Street, Portsmouth, OH 45662. A fee of \$15 which is non-refundable, should accompany the application.
- Student completes the transcript request form and has his/her transcript of grades sent to the college or submits a copy of the general equivalency examination (GED). Also, transcripts of previous college work should be sent to the college.
- Send copy of current Ohio driver's license to the Program Director.

Level II - Same as Level I procedures plus:

- Send copy of current Ohio driver's license; send copy of EMT-A license to the Program Director.
- Two letters of recommendation from someone other than a relative should be submitted to the Program Director. If applicant is a certified EMT-A, one letter should be from the applicant's squad chief.
- Applicant must take a proficiency exam offered by the college and receive a 70% or better to be eligible for the Advanced EMT-A class.
- Applicant completes the Biographical Information form furnished by the college and sends it to the Program Director.
- A meeting with the Program Director and the Pre-Hospital Care Committee is required.

Level III - Same as Level I procedures plus:

- Send copy of current Ohio driver's license; if EMT-A, send copy of license to the Program Director.
- Two letters of recommendation from someone other than a relative should be submitted to the Program Director. If applicant is a certified EMT-A, one letter should be from the applicant's squad chief.
- If applicant is a state certified EMT-A, he may begin second quarter after taking a proficiency exam offered by the college and receiving a score of 80% or above.
- 4. If applicant is not a state certified EMT-A, he must begin first quarter, taking and passing the EMT-A course and EMT-A orientation course offered by the college. Before entering the second quarter, he must take a proficiency exam offered by the college and receive a score of 80% or above.
- 5. If applicant is a certified Adv. EMT-A who has passed the Adv. EMT-A courses with an 80% or above, he must take a proficiency exam offered by the college and receive a score of 80% or above. He may then begin the second quarter taking Paramedic Skills II.
- 6. If applicant is a certified Adv. EMT-A who passed the ADV. EMT-A course with a 79% or below, he must take a proficiency exam offered by the college and receive a score of 80% or above. He may then begin the second quarter taking Paramedic Skills I and II.
- 7. Applicant completes the Biographical Information form furnished by the college and sends it to the Program Director.

- 8. Applicant must sign an agreement for a BCI (Bureau of Criminal Investigation) check.
- A meeting with the Program Director and Pre-Hospital Care Committee is required.
- 10. Completion of physical exam.
- 11. After completion of the program, the student must take and pass an Advanced Cardiac Life Support class given by Scioto County before he may function as a Paramedic in Scioto County.

Level IV - All procedures in Level III plus:

 A grade of "C" or better in high school biology or 2.00 or better in a developmental biology course is necessary. Grades should be submitted to the Program Director.

EMERGENCY MEDICAL TECHNICIAN — PARAMEDIC CURRICULUM

Course No.			lass rs.	Lab Hrs.	Clin. Hrs.	Cr Hrs.
	FIRST QUARTER					
Engl 0111 EMTA 0101 EMTA 0102 Biol 0290B		G T T B	5 2 8 4	0 0 0 3	0 0 0 0	4 2 8 5
			19	3	0	— 19
Engl 0112 Biol 0291B EMTP 0101 EMTP 0102	SECOND QUARTER Contemp. Writing SKills II Anatomy & Physiology II Paramedic Skills I Paramedic Skills II	G B T T	5 4 3 2	0 3 3 3	0 0 3 0	4 5 5 3
			14	9	3	17
RMMT 0301 *EMTP 0103	THIRD QUARTER Prin. of Management Paramedic Skills III	B T	4 8 — 12	0 3 - 3	0 3 - 3	4 11 — 15
*EMTP 0104	FOURTH QUARTER Elective** Paramedic Skills IV	G T	3-4 8 — 11-12	0 0 -	0 6 —	3-4 10 — 13-14

*Includes on squad experience by arrangement. Paramedic Skills III includes 30 hours on squad. Paramedic Skills IV includes 60 hours on squad.

EMTA 0105 Advanced EMT-A Course T 3 2 3 4

^{**}Should be either Speech, Sociology, or Psychology.

ENGINEERING AND INDUSTRIAL TECHNOLOGIES

(ASSOCIATE OF APPLIED SCIENCE DEGREE)

Automotive Technology
Civil Engineering
Diesel Technology
Electro-Mechanical Engineering
Plant Maintenance Engineering
Plastics/Chemical Engineering
Welding Technology

AUTOMOTIVE TECHNOLOGY

Automotive technicians in research and development prepare engines or related equipment for certain tests and evaluation. This often involves calibration and installation of various devices, operation of test equipment, and recording of data. Technicians in service and sales advice customers on products best suited for their needs. They instruct owners and dealers in new product changes and maintenance developments, and might diagnose product malfunction and make necessary adjustments. Technicians in related areas work in positions such as service-sales engineers for oil companies, insurance claims adjusters, or other jobs where their understanding of automotive, diesel and gas turbines would be useful. Technicians in service and operation work for dealers, wholesale distributors, or other fleet operations, planning facilities and equipment, organizing shop management, and training personnel. Technicians in manufacturing maintain or operate machines, do quality control work, or supervise production. Prospective automotive technicians must be patient and reliable and keenly interested in engines and why and how each part works.

Job Opportunities

AUTOMOTIVE FIELD TEST TECHNICIAN (manufacturer-field research & development) — Prepares automotive vehicles for road tests in field proving grounds. Installs various test instruments, operates the vehicle according to the test procedure and records data

ASSOCIATE RESEARCH TECHNICIAN — Prepares automotive and diesel test engines and related instruments for conducting fuel and fuel additive tests in the fuel laboratory section of a petroleum company.

SERVICE MANAGER (dealership) — Plans the automotive service department, selects equipment, organizes and manages shop, selects and trains personnel, assists in diagnosing customer problems and develops an effective service department.

SERVICE TECHNICIAN (dealership) — Utilizes modern test equipment to diagnose and correct malfunctions on the new family of sophisticated automobiles.

MANAGER/TECHNICIAN (self-employed) — Establishes and manages a specialty shop or general service facility.

AUTOMOTIVE CURRICULUM

Course No.			Class Hrs.	Lab Hrs.	Cr. Hrs.
	FIRST QUARTER				
Engl 0111	Contemp. Writing Skills I	G	5	0	4
Math 0101	Basic Algebra	В.	5	0	4
Econ 0101	Principles of Economics I	В	5	0	4
AuDi 0101	Fuels and Lubricants	Т	2	3	3
AuDi 0102	Basic Electricity	.T	2	5	4
			_		_
			19	8	19

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
AuDi 0111	SECOND QUARTER Contemp. Writing Skills II College Algebra I Introduction to Business Electrical and Fuel Systems I	G B G T	5 5 5 1	0 0 0 6 6	4 4 4 5 3
Weld 0201	Combined Welding	'	19	12	 20
AuDi 0121 AuDi 0112 Engl 0115	THIRD QUARTER Principles of Internal Combustion Engine Electrical and Fuel Systems II Comp. and Mass Comm.	T T G	3 5 — 11	9 6 0 — 15	6 5 4 -
Auto 0201 Auto 0223 EnDr 0101 RMMT 0233 Phys 0201	FOURTH QUARTER Power Drive Train Air Cond. and Brake Systems Engineering Drawing I Sales Promotion Physics (Mechanics)	T T T G B	3 2 1 3 3 —	4 4 5 0 3 —	5 3 3 4 —
Psyc 0101 Auto 0211 Auto 0212 Engl 0121	FIFTH QUARTER Principles of Psychology Testing and Repair Chassis Technical Writing	G T T G	5 4 3 3 —	0 9 6 0 —	4 6 6 3 —
Auto 0221 Auto 0224 Auto 0225 Spch 0101 EMng 0206	SIXTH QUARTER Service Area Automatic Transmissions Service Managament Practices Speech I Hydraulics and Pneumatics	T T G G T	0 3 4 3 3 -	6 6 0 0 2 —	2 5 4 3 3 —
		_			

CIVIL ENGINEERING TECHNOLOGY

The Civil Engineering Technology program prepares a student to become a technician in a field which concerns itself with the planning, design, and construction of both fixed structures and ground facilities for land, sea, or air transportation. It is concerned with the flow and uses of water. It is concerned with protection, in war and peace, against the destructive forces of man or nature. In other words, civil engineers and technicians build airports, bridges, dams, highways, powerhouses, piplines, and railroads.

Thus, the engineering technician must possess skills, in such a variety of areas as: hydraulics, flood control, irrigation, steel and concrete structural work, field surveying, traffic studies, computations, and the fundamentals of construction. And he is specifically trained to draw up plans and specifications; estimate costs and materials; use the transit, level and other surveying instruments; prepare maps; inspect jobs; and supervise construction.

Job Opportunities

Positions available to the civil engineering technician are:

COMPUTER — He determines coordinates for geographic position, land lines, and land monuments in addition to computing quantities.

CONTRACTOR'S AIDE — He prepares plans and detail drawings for elements of construction projects.

ESTIMATOR — He estimates costs, quantities of materials and supplies, and labor for construction projects.

INSPECTOR — He inspects line and grade references, forms, materials, and construction methods.

SURVEYOR — Surveys earth's surface oversees engineering survey partly engaged in determining exact location and measurements of points, elevations, lines, areas, and contours of earth's surface to secure data used for construction map making, land valuation, mining or other purposes. Calculates information needed to conduct survey from notes, maps, deeds, or other records.

Other positions are available to the graduate engineering technician after several years of experience. These include: construction supervisor, highway engineering supervisor, photogrammetrist, and specifications writer.

CIVIL ENGINEERING CURRICULUM

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	FIRST QUARTER				
Engl 0111	Contemp. Writing Skills I	G	5	0	4
Math 0130	College Algebra I	В	5	Ō	4
Econ 0101	Economics I	В	5	0	4
CEng 0101	Intro. to Surveying	Т	3	0	3
EnDr 0101	Engineering Drawing I	T	1	5	3
			-	_	_
			19	5	18

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	•				
Engl 0112	SECOND QUARTER Contemp. Writing Skills II	G .	5	0	4
Math 0131	College Algebra II	В	5	ő	4
Phys 0201 CEng 0111	Physics I (Mechanics)	В	3	3	4
EnDr 0102	Surveying I Engineering Drawing II	T T	2 1	5 5	3
		-	_	_	_
			16	13	18
	THIRD QUARTER				
Engl 0115	Comp. & Mass Comm.	G	5	. 0	4
Math 0132 Phys 0202	Trig. & Anal. Geometry Physics II (Electricity)	B B	5 3	0 3	4 4
CEng 0112	Surveying II	Ť	2	5	3
EnDr 0103	Engineering Drawing III	Т	1	5	3
			16	13	18
	FOURTH QUARTER				
Engl 0121	Technical Writing	G	3	Ö	3
Phys 0203	Physics III (Heat, Light,	_			
CEng 0211	& Sound) Highway Construction I	G T	3 5	3 0	4 4
CEng 0113	Route Surveying I	Ť	2	6	3
CEng 0201	Concrete Design	T	4	2	4
			17.	11	18
	FIFTH QUARTER				
CEng 0202	Civil Engineering Law	Т	2	0	2
CEng 0203	Statics	Ţ	4	0	3
CEng 0204 ENGR 0101	Construction Supervision First Aid & Safety	T T	3 1	0 1	3 1
Psyc 0101	Prin. of Psychology	G	5	ò	4
CEng 0205 CEng 0114	Hydraulics for Civil Engr. Route Surveying II	T T	2 2	1	2
Oring 0114	nodie Surveying II	'	_	5 —	3
			19	7	18
	SIXTH QUARTER				
CEng 0206	Engr. Prob. & Field Inspec.	T	0	3	1
CEng 0212 CEng 0207	Highway Construction II Strength of Materials I	T T	5 3	0 2	4 3
CEng 0208	Soil Materials & Testing	÷	2	3	3
CEng 0115 Soci 0101	Surveying for Civil Engineers	T	4	0	3
30010101	Prin. of Sociology	G	5 —	0	4
			19	8	18
O					

DIESEL TECHNOLOGY

Diesel technicians repair and maintain diesel engines that power transportation equipment, such as heavy trucks, buses, boats, and locomotives; and construction equipment, such as bulldozers and cranes. They also service diesel farm tractors and a variety of other diesel-powered equipment, such as compressors and pumps used in oil well drilling and in irrigation.

Before making repairs, diesel technicians inspect and test engine components to determine why an engine is not operating properly. After locating the trouble, they repair or replace defective parts and make adjustments. Preventive maintenance — avoiding trouble before it starts — is another major responsibility. For example, they may periodically inspect, test, and adjust engine components.

Many technicians make all types of diesel engine repairs. Others specialize, for example, in rebuilding engines or in repairing fuel injection systems, turbochargers, cylinder heads, or starting systems. Some also repair large natural gas engines used to power generators and other industrial equipment.

Job Opportunities

SERVICE TECHNICIANS — Many technicians work for distributors and dealers that sell engines, farm and construction equipment, and trucks. Others work for bus lines, construction firms, and government agencies such as State highway departments. Some technicians work for diesel engine manufacturers and independent repair shops that specialize in diesels. They utilize modern equipment to service and repair a variety of malfunctions on diesel engines and heavy duty drive components.

ENGINEERING TESTER (diesel engine manufacturing firm) — Assists test engineers in recording data obtained from diesel engines running with different fuels and lubricating oils to determine performance and wear characteristics. Learns to operate electric dynamometers and related instrumentaion.

LABORATORY TECHNICIAN — Compares fuels by ratings on laboratory test (CFR) engines. Determines knock characteristics of motor fuels and compares diesel fuel on the basis of ignition delay. Also assists in tests to determine characteristics of lubricant deposits on engine parts.

LUBRICATION TECHNICIAN — Prepares lubricant and maintenance procedures and schedules for truck fleet operators, heavy construction equipment, road building concerns, and manufacturing companies. Evaluates failures in equipment due to wear, improper lubrication, corrosion, and other problems. Tests oils and greases and recommends changes in types of lubricants and maintenance procedures.

DIESEL CURRICULUM

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
Engl 0111 Math 0101 AuDi 0101 AuDi 0102 EnDr 0101	FIRST QUARTER Contemp. Writing Skills I Basic Algebra Fuels and Lubricants Basic Electricity Engineering Drawing I	G B T T T	5 5 2 2 1 —	0 0 3 5 5 -	4 4 3 4 3 —
Engl 0112 Math 0130 RMMT 010 AuDi 0111	SECOND QUARTER Contemp. Writing Skills II College Algebra I Introduction to Business Electrical and Fuel Systems I	G B G T	5 5 5 3 —	0 0 0 6	4 4 4 5 —
AuDi 0121 AuDi 0112 Econ 0101	THIRD QUARTER Principles of Internal Combustion Engine Electrical and Fuel Systems II Principles of Economics I	T T B	3 5 — 11	9 6 0 — 15	6 5 4 - 15
DSEL 0202 DSEL 0211 Phys 0201	FOURTH QUARTER Diesel Engines I Diesel Fuel Injections Physics (Mechanics)	T T B	4 4 3 — 11	6 6 3 — 15	6 6 4 —
DSEL 0203 Weld 0201 Engl 0121 Psyc 0101 DSEL 0222	FIFTH QUARTER Diesel Engines II Combined Welding I Technical Writing I Principles of Psychology Heavy Duty Automatic Trans.	T T G G T	4 1 3 5 2 —	6 6 0 0 4 —	6 3 3 4 3 —
DSEL 0221 DSEL 0201 EMng 0206 Spch 0101	SIXTH QUARTER Service and Maintenance Management Heavy Duty Drives Hydraulics and Pneumatics Speech I	G T G	4 4 3 3 —	0 6 2 0 - 8	4 6 3 - 16

ELECTRO-MECHANICAL ENGINEERING TECHNOLOGY

An electro-mechanical engineering technician is a para-professional educated for positions which encompass both electrical and mechanical engineering technologies but which demand more than just a simple combination of the two fields. The electro-mechanical engineering technician, for example, may work in the computer industry in positions which could not be handled by the electrical or mechanical engineering technician.

This field is somewhat new to business and industry; therefore, its potential has merely been scratched. Many of the electro-mechanical graduates are working in business and industry at the present time which indicates the demand for their services is great.

Job Opportunities

Positions available in the electro-mechanical technology are almost unlimited. Listed below are some of those positions.

ELECTRO-MECHANICAL INSPECTOR — Inspects and tests electrical components, housings, and finished assemblies of electrical sensing devices.

ELECTRO-MECHANICAL TECHNICIAN — Fabricates, tests, analyzes, and adjusts precision electro-mechanical instruments.

ELECTRO-MECHANICAL ASSEMBLER — Tests assembled electronic scale components with oscilloscope and voltmeter to detect missing parts, loose wires and defective solder joints.

ELECTRICAL AND ELECTRONIC TECHNICIAN — Applies electronic theory, principles of electrical circuits, electrical testing procedures, engineering mathematics, physics, and related subjects to layout, building, testing, trouble-shooting, etc.

ELECTRO-MECHANICAL DESIGN & DEVELOPMENT TECHNI-CIAN — Develops detailed design drawings and related specifications of mechanical equipment, according to engineering sketches and design proposal specifications.

Other positions are available to the graduate technician after several years of experience, such as: contractor, designer, estimator, and sales representative.

ELECTRO-MECHANICAL ENGINEERING CURRICULUM

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	FIRST QUARTER				
Engl 0111	Contemp. Writing Skills I	G	5	0	4
Math 0130	College Algebra I	В	5	0	4
Econ 0101	Economics I	В	5	0	4
EMng 0111	Electrical Fundamentals I	T	3	3	4
EnDr 0101	Engineering Drawing I	Т	1	5	3
	<u> </u>			_	_
			19	8	19

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	SECOND QUARTER				
Engl 0112 Math 0131 Phys 0201 EMng 0101 EMng 0112	Contemp. Writing Skills II College Algebra II Physics I (Mechanics) Electro-Mechanical Devices Elect. Fundamentals II	G B B T T	5 5 3 2 3	0 0 3 3 3	4 4 4 3 4
			18	9	18
Engl 0115 Math 0132 Phys 0202 EMng 0121 Emng 0103		G B B T	5 5 3 2 1 —	0 0 3 5 3 -	4 4 4 2 —
Engl 0121 Phys 0203 Emng 0201 EMng 0202 EMng 0203 EMng 0122	Mechanics and Dynamics	G T T T	3 3 2 3 1 2 —	0 3 3 3 4 —	3 4 3 4 2 3 —
Soci 0101 Emng 0211 EMng 0204 EMng 0205 EMng 0206 Engr 0101	Automatic Control Systems	G T T T T	5 2 2 3 3 1 —	0 5 5 3 2 1 —	4 3 3 4 3 1 —
Psyc. 0101 EMng 0212 EMng 0207 EMng 0208 Engr 0209	Electro-Mechanical Design	G T T T	5 2 1 2 3 —	0 5 6 4 0 —	4 3 3 3 3 —
Students	may clock a different sequer	nce of	math v	vith a	tviso

PLANT MAINTENANCE ENGINEERING

Plant maintenance engineering technicians may find themselves employed in any of many major industrial groups including aeronautics, chemistry, petroleum, foods, metals, ceramics, pulp and paper, power, textile, instrument and control manufacturing, or in the emerging fields of space, oceanography, air and water pollution, biomedical instrumentation, and national defense systems.

Depending on ability, and drive, the technician can advance to repair, troubleshooting, and assisting in design. Each of these goals is achieved by combining the technician's general background with specific knowledge about the system apparatus, as follows.

The plant maintenance engineering technician's work consists principally of mechanical functions, but also requires the ability to visualize functions or malfunctions of various mechancisms. The work consists of checking out equipment prior to operation, calibrating equipment in operation, rebuilding equipment using standard replacement parts, mounting, interconnecting equipment from blueprints, and the performance of mechanical functions requiring the use of tools (screwdriver, wrench, pliers, electrical drill, soldering iron). Ability to read both instrumentation and electronic schematic diagrams is necessary.

As for the repair instrumentation technician, his primary functions are determining the causes of malfunctioning and instituting necessary repairs. Such repairs usually involve indidivual pieces of equipment variables such as pressure, flow, temperature, motion, force, and chemical composition, using hand-tools, and precision instruments. Disassembles malfunctioning instruments, and examines and tests mechanism and circuitry for defects. Troubleshooting equipment in or out of control system and replaces or repairs defective parts. Reassembles instrument and tests assembly for conformance with specifications, using instruments such as potentiometer, resistance bridge, manometer, and pressure gauge. Inspects instruments periodically and makes minor calibrations to insure functioning within specified standards. May adjust and repair final control mechanisms such as automatically controlled valves or positioners.

Job Opportunities

MAINTENANCE INSTRUMENTATION TECHNICIAN — Performs standard calibrations for production purposes; checks results. May be employed to work on pneumatic, hydraulic, or electrical and/or electronic equipment. Works with hand tools and soldering iron.

INSTRUMENT SALES TECHNICIAN — Works for equipment manufacturing company, analyzing customer needs for specific control instruments; outlines specifications for cost and function of equipment; needs to be capable of doing emergency, goodwill trouble-shooting.

PLANT MAINTENANCE ENGINEER — A term applied to one who designs and supervises operation and maintenance of electrical, mechanical, and thermal instruments and control equipment necessary for safe and efficient operation of industrial plant. Studies plant layout and process requirements to determine type and number of items needed. Writes specifications for selection of stock or special instruments from suppliers. Directs installation, calibration, and testing of equipment. Supervises application, inspection, and maintenance of instruments in operation.

INSTRUMENTATION TECHNICIAN — Devises, sets up, and operates electronic instrumentation and related electromechanical or electrohydraulic apparatus involved in operational and environmental testing of machines and electrical equipment, and translates test data for subsequent use by engineering personnel in making engineering design and evaluation decision.

PLANT MAINTENANCE ENGINEERING CURRICULUM

Course No.	Course	Code	Class Hrs.	Lab Hrs.	
Engl 0111 Math 0101 PMnt 0101 EnDr 0101	FIRST QUARTER Contemp. Writing Skills I Basic Algebra DC Circuits and Machines Engineering Drawing I Technical Elective	G B T T	5 5 2 1	0 0 5 5	4 4 4 3 1-3
			13	10	 16-18
Engl 0112 Math 0130 PMnt 0102 Phys 0201 EnDr 0100	SECOND QUARTER Contemp. Writing Skills II College Algebra I AC Circuits and Machines Physics (Mechanics) Blueprint Reading	G B T B T	5 5 2 3 2 —	0 0 5 3 0 -	4 4 4 2 —
Engl 0115 Math 0131 PMnt 0111 Chem 0202	THIRD QUARTER Comp. and Mass Comm. College Algebra II Industrial Electronics Process Instrumentation Technical Elective	G B T T	5 5 2 3	0 0 5 3	4 4 4 4 2-4
			_ 15	_ 8	 18-20
Engl 0121 PMnt 0201 Psyc 0101 PMnt 0211 Engr 0101	FOURTH QUARTER Technical Writing I Instrumentation Electronics Principles of Psychology Fluid Mechanics I First Aid and Safety Technical Elective	G T G T T	3 3 5 3 1 —	0 6 0 3 1	3 5 4 4 1 2-3 —
EMng 0206 PMnt 0212 Econ 0101 PMnt 0221	FIFTH QUARTER Hydraulics and Pneumatics Fluid Mechanics II Principles of Economics I Instrument Fundamentals I	T T G T	3 3 5 3 —	2 3 0 4 -	3 4 4 4 — 15
Engr 0209 PMnt 0222 PMnt 0223 PMnt 0224	SIXTH QUARTER Industrial Supervision Instrument Fundamentals II Measurement Principles Industrial Control	T T T	3 3 3 —	0 4 4 3 —	3 4 4 4 — 15

PLASTICS/CHEMICAL ENGINEERING

Due to the close relationship between Plastics Engineering and the Chemical Technology Program, it has become desirable to combine them into one program but still allowing students to choose technical electives from either the plastics or chemical field.

Today, plastics is one of the fastest growing industries in the United States. The plastics industry is expanding both in volume and variety of products. Manufacturers are doing extensive research to see how plastics can improve their products, reduce costs, and simplify production.

Plastics led all other industries in projected growth through 1980 in a recent forecast. The percentage of growth of output for plastics over the next fifteen years was set at 722 percent. By comparison, the electric utilities industry was forecast to grow 166 percent; rubber, 154 percent; paper, 102 percent; iron and steel, 156 percent; stone, clay and glass, 75 percent.

The chemical industry is one of the most dynamic in terms of growth. The Ohio River Valley from Pittsburgh to Louisville is perhaps the largest chemical producing areas in America, and provides a great employment opportunity for graduates.

The role of the technician in the chemical industry will constantly change as job content, responsibilities, opportunity, and initiative increase. This signifies that technicians' contributors will become an ever stronger part of the very fabric of the industry, building upon the strong base that exists today.

Job Opportunities

Positions available for the Plastics/Chemical graduate might be: CHEMICAL PRODUCTION TECHNICIAN — Controls operation of chemical production facilities, and is responsible for maintaining high production levels.

CHEMICAL RESEARCH TECHNICIAN — Assists chemists and engineers in the development of new products and processes by designing, constructing, and operating experimental chemical plants or by performing laboratory experiments.

CHEMICAL QUALITY CONTROL TECHNICIAN — Assures a high quality level in products manufactured by performing chemical tests in the labroatory.

POLLUTION CONTROL TECHNICIAN — Takes samples of air and water and analyzes them to assure low pollution levels. Assists in the development of pollution control methods.

CHEMICAL SALES OR TECHNICAL SERVICE REPRESENTATIVE — Aids customers in the choice of the correct product to purchase and assists in solving customer problems.

QUALITY CONTROL TECHNICIAN — Samples raw materials and finished products and performs tests to assure compliance with quality specifications.

PILOT PLANT TECHNICIAN — Assistant to an engineer operates experimental plants. Responsible for taking data and making observations.

APPLICATION RESEARCH TECHNICIAN — Blends and compounds plastics with additives, filters, colors, etc. Assists in selecting proper plastics for specific products and applications.

PLASTIC ARTICLE PRODUCTION TECHNICIAN — Operates and supervises the operation of commercial equipment used in the production of plastic items, such as extruder, injection molding machine, thermoformer, etc.

SENIOR TECHNICIAN — Supervises other technicians in all operations and takes part in new projects or process evaluation.

TECHNICIAN SERVICE REPRESENTATIVE — As an employee of a plastics resin or equipment manufacturer, aids customers in the proper selection and use of such products, and in solving customer problems.

Other positions would be available upon the attainment of several years of experience. Supervisory level positions are open to the experienced technician with a good technical background as well as the ability and desire to assume responsibility.

PLASTICS/CHEMICAL ENGINEERING CURRICULUM

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.	Course No.	Course	Code	Class Hrs.		Cr. Hrs.
	FIRST QUARTER						FOURTH QUARTER				
Engl 0111	Contemp. Writing SKills I	G	5	0	4	Engl 0121	Technical Writing	G	3	0	3
Chem 0141	, .	B	3	3	4	PEng 0206	Intro. to Chemical				
Math 0130	College Algebra I	B	5	3	4	-	Engineering	T	3	2	3
PEna 0102	Machine Tools	Т	1	3	2	Phys 0201	Physics (Mechanics)	В	3	-3	4
PEng 0101	Intro. to Plastics/						Technical Elective	T	5-6	5-6	. 7
	Chemical Tech.	Т	3	2	3				_		_
			_	_	_				14-15	10-11	17
			17	8	17						
							FIFTH QUARTER				
	SECOND QUARTER					Econ 0101	Prin. of Economics I	Т	5	0	4
Engl 0112	Contemp. Writing Skills II	G	5	0	4	Engr 0101	First Aid and Safety	Т	1	1	1
Math 0131	College Algebra II	В	5	0	4	Phys 0202	Physics (Electricity)	В	. 3	3	4
EnDr 0101	Engineering Drawing I	T	1	6 3	3		Technical Electives	Т	6-7	5-8	7-9
Chem 0142		В	. 3	3	4				_	_	_
Engr 0209	Industrial Supervision	Т	3	0	3				15-16	9-12	16-18
J	•		_	_							
			17	9	18		SIXTH QUARTER				
						Phys 0203	Physics (Heat, Light, Sound)	В	3	3	4
	THIRD QUARTER					PEng 0202	Production Control and				
Engl 0115	Comp. and Mass Comm.	G	5	0	4		Planning	T	3	3	4
	Chemistry III:					PEng 0207	Fundamentals of Process				
	Quantitive Analysis	В	3	3	4		Equip. and Maintenance	Ŧ	2	0	2
Math 0132	Trigonometry & Analytic						Technical Electives	Т	6	6	8
	Geometry	В	5	0	4						
	Technical Elective	Т	6-8	3	6-8				14	12	18
			 19-21	6	 18-20	Students	may elect a different sequer	nce of	math v	vith ac	dvisor

approval.

Students who choose plastics courses as electives may choose to take Chemistry 0122 in place of Chemistry 0143 with advisor approval.

Chemical Electives

Chem 0202 — Process Instrumentation (4)

Chem 0205 — Organic Chemistry (4)

Chem 0206 — Organic Chemistry (4) Chem 0207 — Organic Chemistry (4) Chem 0211 — Unit Operations I (4)

Chem 0212 — Unit Operations II (4)

Chem 0224 — Instrumental Analysis I (5) Chem 0225 — Instrumental Analysis II (5)

Plastics Electives

PEng 0103 — Extrusion Molding (3) PEng 0104 — Thermo-Forming (3) PEng 0105 — Injection Molding (3)

PEng 0105 — Injection Molding (3)
PEng 0201 — Plastics Finishing (4)
PEng 0203 — Testing of Plastic Materials (3)
PEng 0205 — Plant Layout & Materials Handling (3)
PEng 0209 — Fabrication and Manufacturing of Plastic Products (4)
PEng 0210 — Properties of Materials (4)

WELDING TECHNOLOGY

Persons planning careers as welders or cutters need manual dexterity, good eyesight, and good eye-hand coordination. They should be able to concentrate on detailed work for long periods, and should be free of any physical disabilities that would prevent them from bending, stooping, and working in awkward positions. Courses in mathematics, mechanical drawing, blueprint reading, and physics also are helpful.

New developments are requiring new skills of welders. This is particularly true in fields such as atomic energy or missile manufacturing, which have high standards for the reliability of welds. Before being assigned to work on buildings, bridges, or other jobs where the strength of the weld is highly critical, welders may be required to pass an examination of their welding skills given by an employer or government agency. Welders who pass such examinations are generally referred to as "certified welders."

Promotion opportunities for welders are good. Welding machine tenders may learn skilled welding jobs; skilled welders may be promoted to welding inspectors, technicians, or supervisors. Experienced workers who have obtained **college training on the properties** of metal are in great demand to develop new applications for welding.

Job Opportunities

Employment opportunities should be especially good for skilled welders in nuclear powerplant, pipeline, and ship construction jobs.

WELDING TECHNOLOGY CURRICULUM

Course No.	Course	Code	Lec. Hrs.	Lab Hrs.	Cr. Hrs.
	FIRST QUARTER				
Engl 0111	Contemp. Writing SKills I	G	5	0	4
Econ 0101	Principles of Economics I	G	5	0	4
Math 0105	Business Math	В	5	0	4
Weld 0101 Weld 0111	Welding Symbols and Prints Basic Oxy-Acetylene	Т	3	2	3
	Welding	T	1	8	4
			_	_	
			19	10	19
	SECOND QUARTER				
Engl 0111	Contemp. Writing Skills II	G	5	0	4
Math 0101	Basic Algebra	В	5	Ó	4
RMMT 0101		G	5	0	4
Weld 0201	Combined Welding I	Т	1	8	4
Weld 0113	Basic Arc Welding	T	1	10	4
			_	_	_
			17	18	20
	THIRD QUARTER				
Engl 0115	Comp. and Mass Comm.	G	5	0	4
Math 0130	College Algebra I	В	5	0	4
Weld 0102	Template Layout and				
	Construction	T	3	0	3
Weld 0112	Basic Inert Gas Welding	Т	1	5	3
Weld 0114	Advanced Arc Welding	T	1	8	4
			15	13	18

Course No.	Course	Code	Lec. Hrs.	Lab Hrs.	Cr. Hrs.
	FOURTH QUARTER				
Spch 0101	Speech I	G	3	0	3
Engr 0209	Industrial Supervision	T	3	0	3
Weld 0202	Combined Welding II	T	1	8	4
Weld 0211	Advanced Structural Welding	T	1	8	4
Weld 0121	Basic Metallurgy	T	3	0	3
			_	_	_
			11	16	17
	FIFTH QUARTER				
Engl 0121	Technical Writing	G	3	0	3
Psyc 0101	Psychology	Ğ	4	ŏ	4
Weld 0122	Welding Metallurgy	Ť	2	1	2
Weld 0203	Combined Welding III	Т	1	8	4
Weld 0212	Pipe Welding	Ť	1	15	6
			_	_	_
			11	24	19
	SIXTH QUARTER				
Soci 0101	Sociology	G	4	0	4
Weld 0213	Advanced Pipe Welding	Ť	1	8	4
Weld 0216	Welding Certification and	•	·	•	•
	Testing	Т	1	15	6
Weld 0214	Advanced Inert Gas Welding	Ť	1	6	3
			_		_
			7	29	17

PUBLIC SERVICE TECHNOLOGIES

(ASSOCIATE OF APPLIED SCIENCE DEGREE)

Corrections Technology
Social Services Technology

NATURAL RESOURCES TECHNOLOGY

(ASSOCIATE OF APPLIED SCIENCE DEGREE)

Recreation and Parks Management

CORRECTIONS TECHNOLOGY

The Corrections Technology Program is designed to provide the student with an understanding of deviant behavior within modern society. Specially designed courses will deal with the problems of correctional law, the prevention, identification, and correction of deviant behavior.

The correctional specialist works in major areas as group supervisors, correctional officers, and other instructional personnel concerned generally with the custody and care of offenders in group settings. More than 50% of the personnel in the correctional field belong to this group.

Job Opportunities

Graduates are specialists trained to assist in the supervision, research, and administration necessary to estimate and determine the appropriate time to release an inmate from an institution and ultimately discharge him from supervision. They are qualified to become correctional officers.

CORRECTIONS CURRICULUM

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	FIRST QUARTER				
Engl 0111 Math 0105 CorT 0101 CorT 0102 Psyc 0101	Contemp. Writing Skills I Business Mathematics Introduction to Corrections Criminology Principles of Psychology	G B T T G	5 5 3 5 —	0 0 0 0 0	4 3 3 4 — 18
	SECOND QUARTER				
Engl 0112 CorT 0103 CorT 0104 Soci 0101 CorT 0105	Contemp. Writing Skills II Juvenile Delinquency Criminal Law Principles of Sociology Probation & Parole	G T T G T	5 2 3 5 3 — 18	0 3 0 0 3 —	4 3 3 4 4 18
	THIRD QUARTER				
Engl 0115 Psyc 0270 CorT 0106 CorT 0107 ExST 0101	Comp. & Mass Comm. Abnormal Psychology Constitutional Law Philosophy of Corrections Typing I or Elective	G T T T	5 4 3 2 2 — 16	0 0 0 2 3 —	4 3 2 3 —

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	FOURTH QUARTER				
Spch 0101	Speech I	G	3	0	3
CorT 0121	Correctional Internship —		_	_	
CorT 0201	Field Experience Corr. Interview &	Т	0	3	1
COFT 0201	Counseling Technique	Т	2	3	3
Cort 0202	Drug Abuse	Ť.	2	3	3
CorT 0203	Correctional Psychology	Ť	2 5	ŏ	4
CorT 0204	Correctional Law	Ť	4	3	5
			_		_
			16	12	19
	FIFTH QUARTER				
Engl 0121	Technical Writing I	G	3	0	3
CorT 0122	Correctional Internship —	•	·	•	Ŭ
00	Field Experience	Т	0	3	1
CorT 0205	Group Interaction	Т	1	4	2
CorT 0206	Correctional Case Evaluation	Т	3	6	5
CorT 0207	Observation Techniques	T	2	2	2 5
CorT 0208	Correctional Programs	Т	5	0	5
			14	15	18
•	SIXTH QUARTER				
CorT 0123	Correctional Internship —				
CO11 0123	Field Experience	т	0	3	1
CorT 0209	Research Appreciation	•	•	Ŭ	•
••••	in Corr.	Т	4	3	5
CorT 0210	Principles of Leadership	T	4	0	4
CorT 0212	Community Programs	Т	3	6	5
Govt 0100	Intro. to American Systems	В	4	0	4
			— 15	12	19

It is highly recommended that courses CorT 0101, CorT 0102, and Psyc 0101 be taken by the beginning Corrections student before proceeding to other course work; however, this is not a requirement.

SOCIAL SERVICES TECHNOLOGY

The Social Services Technology Program provides a two-year college level program for high school graduates interested in working with the people of the local community and in helping them with their daily problems.

Opportunities in health, education and welfare have expanded more rapidly than has the number of highly trained specialists to meet them.

Job Opportunities

Graduates are specialists trained in field work, specialized courses in both group work and casework, human relationships, race relations, social problems, and group dynamics and leadership. They are qualified to become case workers, child care workers, mental health aides, rehabilitation aides, and vocational counselor trainees.

SOCIAL SERVICE CURRICULUM

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
Engl 0111	FIRST QUARTER Contemp. Writing Skills I	G	5	0	4
Soci 0101 Psyc 0101 Psyc 0173	Prin. of Sociology Prin. of Psychology Human Growht & Devel	G G B	5 5 3	0	4
SSTc0102	Intro. to Social Services	Ť	3	2	4 3 —
	SECOND QUARTER		21	4	19
Engl 0112 SSTc 0103 SSTc 0107 Psyc 0131 SSTc 0104 SSTc 0111	Contemp. Writing Skills II Contemp. Social Problems Sociology of Education Human Adjustment Personal Growth & Devel. Social Serv. Internship I	G B B T T	5 4 5 3 2 0	0 0 0 0 0	4 3 4 3 2 2
			19	6	18
Engl 0115 SSTc 0105 Spch 0101 SSTc 0106 Psyc 0270 SSTc 0112	THIRD QUARTER Comp. & Mass Comm. Marriage and the Family Speech I Rehabilitation Abnormal Psychology Social Serv. Internship II	G T G T G	5 3 2 5 0	0 1 0 0 0 6	4 3 3 2 4 2
			18	7	18

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
	FOURTH QUARTER				
SSTc 0201 CorT 0102 SSTc 0212 SSTc 0204 Econ 0101 SSTc 0113	Public & Child Welfare Criminology Penology & Corrections Social Group Work Prin. of Economics I Social Serv. Internship III	T T T T B	3 4 3 2 5	2 0 3 0 0	3 4 2 4 2
		•	_		_
			17	11	18
	FIFTH QUARTER				
Econ 0206 SSTc 0205	Consumer Economics Historic Background to	В	5	0	4
CCT- 0010	Urban Society	В	3	2	3
SSTc 0210 SSTc 0207 SSTc 0114 CorT 0103	Medical Sociology U.S. Minoirty Groups Social Serv. Internship IV Juvenile Delinguency	T T T T	3 3 0	0 0 6	3 3 2 3
0011 0100	ouverme Demiquency	i	4	0	3
			18	8	18
	SIXTH QUARTER				
SSTc 0208	Community &	_	_	_	
SSTc 0209	Community Resources Interviewing &	T	3	2	3
CCT- 0000	Counseling	T	1	3	2
SSTc 0203 SSTc 0211	Gerontology Social Prob. & Police Relations	T _	4	0	3
	Electives	T G	2 3	3 0	3
SSTc 0115	Social Serv. Internship V	Ť	0	6	3 2
			13	14	16

NATURAL RESOURCES TECHNOLOGY (ASSOCIATE OF APPLIED SCIENCE DEGREE)

RECREATION AND PARKS MANAGEMENT

The Recreation and Parks curriculum is designed to graduate a technician capable of handling design, layout, and construction of water and recreational areas which will include boating, swimming, camping, playground facilities, basketball courts, baseball and softball areas, etc. Not only must he have thorough understanding in this area, he will be exposed to management of such areas, maintenance, and serve as a supervisor for personnel under his control. The Recreation and Parks technician will be able to develop recreational programs and give instructions in all areas of recreation.

An integral part of the Recreation and Parks Management program is the working and learning done at Riverside Park. A cooperative agreement between the Scioto County Commissioners and Shawnee State College will allow students to receive first hand experience in the development, operation, and maintenance of a major recreation complex now being developed along the Ohio River. The net effect of this agreement is that students will receive the equivalent of one full year of work experience while completing the two year technical curriculum in Recreation and Parks.

Job Opportunities

Positions available in Recreation and Parks Management Technology:

ASSISTANT PARK MANAGER — Supervises and coordinates activities of workers in operation maintenance and repair of roadways, swimming pools, golf courses, play areas, and other park equipment and facilities.

ADMINISTRATIVE ASSISTANT TO RECREATION DIRECTOR OR SUPERINTENDENT OF RECREATION — Assists in plans, promotes, organizes, and administers public recreation service for entire communities. Studies local conditions and assists in the developing of immediate and long-range plans to meet recreational needs of all age groups.

CAMP SUPERVISOR OR CAMP MANAGER — Manages constructions of camping areas, selects location and supervises workers engaged in the installation of camping facilities. Inspects and corrects sanitary conditions of camp.

RECREATION SUPERVISOR — Supervises paid and volunteer recreation service personnel in public department, voluntary agency, or similar type facility, such as community centers or swimming pools.

Other positions are available to the graduate technician after several years of experience — positions as turf and grounds specialists, lab and service technician, and assistant in landscape architecture.

RECREATION & PARKS MANAGEMENT CURRICULUM

Course No.	Course	Code	Class Hrs.	Lab Hrs.	Cr. Hrs.
RAPM 0101 Biol 0105 Engl 0111 Math 0105 Psyc 0101	FIRST QUARTER Introduction to Recreation Field Biology Contemp. Writing Skills I Business Math Principles of Psychology	T B G B	2 2 5 5 5 —	3 4 0 0 0 - 7	3 3 4 4 4 -

Cour se No.	Course	Code	Class Hrs.	Lab Hrs. I	Cr. Hrs.
Biol 0215 HPFR 0227	SECOND QUARTER Soil Management General Ecology First Aid Physical Education Activity Contemp. Writing Skills II Basic Algebra	T B T T G B	2 2 4 0 5 5 -	3 3 0 2 0 0 -	3 3 4 1 4 4 —
RAPM 0104	THIRD QUARTER Hydrology and Water Quality Taxonomy of Vertebrates Physical Education Activity Comp. and Mass Comm. College Algebra Surveying I	T T G B T	2 3 0 5 5 2 —	4 3 2 0 0 5 —	3 4 1 4 4 3 —
RAPM 0121	SUMMER QUARTER Parks and Recreation Intership	т	0	40	6
RAPM 0202 RAPM 0203 Soci 0101	FOURTH QUARTER Outdoor Recreation Forest Management and Recreation Maintenance of Recreation Areas Principles of Sociology Physical Education Activity	T T G T	2 3 5 0	6 3 6 0 2	4 4 4 1
RAPM 0205	 Orientation to Employment Administration of Intramural Athletics 	T T T T G	13 2 1 2 1 4 3 - 13	17 4 6 0 1 0 0 -	3 3 2 1 4 3 - 16
RAPM 0209 RAPM 0210 HPER 0110 HPER 0110	SIXTH QUARTER B Water Recreation Park Protection Wildlife Management Physical Education Activity Physical Education Activity Recreation Leadership	T T T T T	2 1 2 0 0 4 -	4 4 4 2 2 0 —	3 2 3 1 1 4 —

Class Lab Cr

INTER-INSTITUTIONAL ADVANCED STUDY (OHIO UNIVERSITY COURSES)

Shawnee State has entered into an agreement with Ohio University for the purpose of offering junior, senior, and graduate courses on the Shawnee State campus. Under the agreement, students may take Ohio University courses on the Shawnee State campus during or following their course work at Shawnee State. For additional information about opportunities in Ohio University baccalaureate and graduate programs, a student should see his Shawnee State counselor or the Ohio University counselor, whose office is on the Shawnee State Campus.

SIX DEGREES

Through the combined efforts of Shawnee State Community College and Ohio University, students can complete six degree programs at the Shawnee State Campus. These programs are:

- 1 Elementary Education2 General Business
- 3 Nursing
- 4 Criminal Justice
- 5 General Studies
- 6 Computer Systems in Business

The first two years of these programs are offered by Shawnee State Community College. The last two years will be offered by Ohio University. (Courses are available as long as student registration is great enough to justify offering them.)

ASSOCIATE OF INDIVIDUALIZED STUDIES DEGREE

The Associate of Individualized Studies Degree (AIS) at Shawnee State Community College has been designed for the primary purpose of allowing students the option of formulating his/her own individualized program of study. The philosophical basis of the degree is predicated upon the assumption that the student may be unable to achieve his/her personal educational goals through one of the more formalized two-year degree structures offered at Shawnee State. This is especially true for those students interested in concentrating or combining a selected mixture of courses encompassing both academic as well as technical offerings in a manner which may not meet the degree requirements of Shawnee State's Associate of Arts, Associate of Applied Science, or Associate of Applied Business Degrees. With the awarding of the AIS, students thus have an opportunity to formulate their own program of study relevant to personal educational goals.

A demand exists among students for certification of two years of post secondary education. With approval, students may formulate a curriculum designed for transfer into a four-year program at a baccalaureate institution or formulate a program designed for immediate employment. There are those students who may also pursue the degree for general or personal enrichment.

Organizational Structure

The AIS Degree will be organized and administered through the Office of the Dean of Student Services. The Dean of Student Services has at his disposal a staff of full-time counselors familiar with the academic and technical course options available at Shawnee State. The Student Services Staff also has access and strong working relationships with faculty in all academic and technical divisions and programs. Thus, because of its wide range of functions and familiarity with program offerings at Shawnee State, it was the feeling of the AIS Degree Committee that the Office of the Dean of Student Services might appropriately be responsible for curricular and procedural matters as well as AIS program evaluations.

Admissions Requirements

The AIS Degree is available to any student admitted to Shawnee State whose educational objectives and interests cannot be met through one of the more structured degree programs. The student must make formal application by completing the AIS application. The application outlines the student's course of study and intended area of concentration. The student must also explain his reason for pursuing the degree. Two resource faculty or staff members must be consulted in preparation of the program, one of whom must be from the student's stated area of concentration. Both resource members must sign the application before submission for approval to the Dean of Student Services.

The student may submit his application at anytime; however, the student must complete 30 quarter hours of credit after admission into the AIS program. If an application is submitted within the first 10 class days of the quarter, the credits earned that quarter will be included in the 30 credits required after admission to the program.

Once the program receives approval, it should represent a firm contract between the student and faculty/staff involved. Some flexibility and minor alterations should be written into it, but if the major emphasis of the program is changed by the student, it must have written consent of the advisors and approval of the Dean of Student Services.

Graduation Requirements

Upon completion of 90 quarter hours of credit with a cumulative grade point average of 2.00, the student may be awarded the AIS Degree. Thirty hours must be completed after admission to the program. The Office of the Dean of Student Services will handle individual graduation checks.

Counseling Procedure

Given the individualistic nature of the degree, it is understood that extensive academic counseling is necessary for each student pursuing this particular program. Each admitted student will be consulting with two resource personnel, particularly the advisor representing the proposed area of concentration. Although the degree is awarded based upon a program of study designed by the student along with consultation and advice from faculty or administrative advisors, the student has ultimate responsibility for his/her program. Each student will be encouraged to discuss his/her plans and program with Student Services Staff members. Also, students will be encouraged to discuss their program with prospective employers or other relevant nonacademic personnel.

Since the AIS Degree is an individually designed program geared to meet specific educational objectives, it would not be recommended to those students whose interests and/or goals can be better met through one of the more conventional degree offerings at Shawnee State.

Curricular Structure

The AIS program is not expected to have any particular impact on the curricular offerings at Shawnee State as it does not require the development of new courses. The program does, however, allow the student greater flexibility in designing a program that would meet his/her educational needs. The student will be able to design both specialized and interdisciplinary programs with no restrictions on the number of academic or technical courses included in the student's planned program. The only limitations on the amount of credit granted for Advanced Placement, College Level Examination Programs, Course Credit by Examination, Independent Study, Correspondence Study, etc., are those normally applied to the Associate Degree Programs at Shawnee State and the agreement made in the original AIS contract (application).

Grading policies applicable to all other programs at Shawnee State are also applicable to the AIS Degree. To the extent that policies and procedures are developed for examining accomplishments and competencies of life or other creditable experience for all degree students at Shawnee State, they will also be available to AIS Degree students.

Students may modify their programs so long as the major emphasis and direction of the program is not changed. If the major emphasis of the program is altered. It must have the written consent of the advisors. Subject to all requirements of the program to which they transfer, students may transfer to any other degree program at Shawnee State when they choose.

Interinstitutional Cooperation

Relative to interinstitutional cooperation, the AIS Degree can be awarded to students who transfer credits from other institutions. Shawnee State Community College adheres to state articulation guidelines recently adopted by the Ohio Board of Regents.

GRADUATE REALTORS INSTITUTE DESIGNATION

Purpose

- A. To fill the need for a more comprehensive and better instruction program in all facets of the real estate profession through courses of instruction in institutions of higher learning.
- B. To provide licensed real estate brokers and salesmen an opportunity for enhancement of professional competence and financial success through participation in the Graduate, Realtors' Institute (GRI).
- C. To enhance the community status of the real estate profession through a formal education program.
- D. To provide individuals not in the profession an opportunity to become knowledgeable about particular facets of the real estate industry.
- E. To recognize those who have successfully qualified for the GRI designation by awarding them a certificate and pin that identifies them as a Graduate, Realtors' Institute (GRI).

Enrollment

Enrollment in the Real Estate program is not limited to candidates for the GRI certificate.

Individuals seeking information about specific facets of the real estate industry may enroll in any course; however, program curriculum is oriented to the educational needs of the professional.

GRI Certificate Program

The GRI designation is available to those who hold membership in the Ohio Association of Real Estate Boards and have completed the program requirements.

A certificate in recognition of achievement and a GRI lapel pin will be awarded to those individuals successfully completing the program requirements upon application to the Ohio Association of Real Estate Boards, payment of required fees and successful completion of a comprehensive examination.

Please refer to page 85 for the Real Estate Courses and their course description offered at Shawnee State.

DEVELOPMENTAL COURSES

The developmental program is intended for students who do not have the proper educational background to enter their chosen technologies. Offerings include mathematics, biology, chemistry, study techniques and physics. Enrollment is made by compliance with regular admissions procedures. Developmental courses are usually offered during the summers as well as during fall quarter.

100A — Fundamental Math (4)

A brief review of the fundamentals used in arithmetic including addition, subtraction, multiplication, and division as applied to integers and rational numbers. An introduction to the elementary concepts of basic algebra with emphasis on manipulations of algebra expressions, solutions to all types of equations, graphs and formula rearrangements.

100A — Fundamental Chemistry (4)

This course is designed for those students with an inadequate background in chemistry. It should be taken by students planning to enter one of the allied health fields or plastics engineering that have not had high school chemistry. Topics and material presented is intended to increase student's familiarity with terms and chemical process.

100A — Fundamental Biology (4)

This course is designed for those students with an inadequate background in biological science. The course should be taken by those students planning to enter one of the allied health fields that have not had biology on the high school level. Topics and material presented is intended to increase the student's familiarity with terms and chemical process.

100A — Fundamental Physics (4)

This course is designed for those students with an inadequate background in math or physics. This course should be taken by those students before taking Physics 0201. Several physics topics and the mathematical methods to study these topics are covered. Topics include metric system, unit conversion, and vector analysis of forces and motion. An introduction to laboratory procedures and report writing is included.

100A — Fundamental Writing (4)

This is a transitional course for the student who feels he has a basic weakness in reading or writing skills or one who has been away from classroom work for a number of years and recognizes the need for a better foundation for more advanced classroom work. Areas of concentration are (1) reading comprehension, (2) vocabulary development, (3) sentence and paragraph structure.

0090 - Vocabulary Development (1)

Emphasis is placed upon development of skills necessary for building vocabulary.

The following rationing courses have been developed as special interest courses for students attending Shawnee State Community College. While credit may be awarded Shawnee State for each of the listed courses, it is *important* to note that students may experience difficulty in transferring credit earned in *Student Service Courses* to another college or university. This difficulty arises primarily because of the nature and the type of material covered in each of the various courses.

The primary purpose of the Student Service Courses is to aid students in the development of skills and knowledge applicable to their educational pursuits while attending Shawnee State General and Technical College.

SSCr 0002 — New Approaches to Learning (1)

Various approaches to learning are explored. Mnemonic and associative techniques are investigated. (2 hrs. lec. per week for 5 wks.)

SSCr 0004 — Reading Development (1)

Emphasis is placed on improving reading speed and comprehension. Reading problems are identified and attacked: single word fixation, involuntary regression, subvocalization, and inability to concentrate. (2 hr. lec. per wk. for 5 wks.)

SSCr 0008 — Memory Development (1)

Associative learning skills are explored and developed.

SSCr 0010 - TA/Self Concept (1)

Transactional analysis and value clarification are used to assist student in gaining self knowledge.

SSCr 0012 — Parenting/Parents (1)

Family life, structure, development and support are investigated with regard to family relationships.

Please note that developmental courses do not apply toward an associate degree.

COURSE DESCRIPTIONS

ACCOUNTING

Acct 0100 — Basic Accounting (4)

An introduction to fundamental accounting concepts and procedures as required by small businesses. For individuals desiring one course in accounting only. NOT FOR ACCOUNTING MAJORS.

*Acct 0101 — Accounting I (4)

Introduction to fundamental accounting concepts and the procedures. The accounting cycle: nature of accounts and techniques of recording, classifying, summarizing and analyzing basic financial data. Application of fundamental accounting techniques to partnerships and corporations. Accounting for the formation, operation, and dissolution of business enterprises.

*Acct 0102 — Accounting II (4)

Prereq. Acct 0101.

Application of fundamental accounting techniques for cash, long term investments, notes and accounts, inventory methods, plant and equipment, and liabilities. Introduction to manufacturing operations, cost methods and management's need of cost data.

*Acct 0103 — Accounting III (4)

Prereq. Acct 0102.

Reporting and analysis of financial data. Financial statement introduction, analysis and interpretation to meet the needs of modern management. Introduction to accounting techniques applicable to parent and subsidiary companies and departmental and branch operations. Budgeting as an aid to management, and the importance of income tax considerations in financial decisions.

Acct 0104 — Tax Accounting (4)

Prerèq. Acct 0102

Current income tax law and regulations related to business and individual income tax reporting. Practice in preparation of tax returns of businesses and individuals.

Acct 0110 — Payroll Records/Accounting (3)

Prereq. Acct 0101 or 0100.

A basic course in the maintenance of personnel and payroll records as required by the Fair Labor Standards Act and the various federal and state laws covering the withholding and payment of payroll related taxes.

Acct 0205 — Principles of Finance (3)

Prereq. Acct 0102.

Forms of business organization; corporate securities, financing through securities, sources and management of working capital, administration of income, expansion and combination, re-organization, receivership, and dissolution.

*Acct 0211 — Intermediate Accounting I (4)

Prereq. Acct 0103.

A more advanced treatment of accounting theory; determination of income realization and cost expiration. Primary emphasis is on asset accounts in order listed on the balance sheet.

*Acct 0212 — Intermediate Accounting II (4)

Prereq. Acct 0211.

Continuation of Intermediate Accounting I with emphasis on the balance sheet sections dealing with investments, fixed assets and liabilities.

*Acct 0213 — Intermediate Accounting III (4)

Prereq. Acct 0212.

Continuation of Intermediate Accounting II with a detailed study of the owner's equity section of the balance sheet and the financial statements presentation and analysis.

*Acct 0221 — Cost Accounting I (4)

Prereq. Acct 0103.

Introduction to cost accounting systems and methods. Cost concepts, classifications, and measurement techniques in relation to their importance in determination, planning, and control. Job order and process cost accounting methods.

*Denotes classes with Lab fees.

*Acct 0222 — Cost Accounting II (4)

Prereq. Acct 0221.

Estimating, planning, and controlling the costs of processes and projects. Standard cost accounting procedures and the analysis of variances. Cost and profit responsibility reporting to management. Uses of cost and profit data in project selection, product pricing, and other functions of management.

Acct 0230 — Accounting Projects I (2-4)

Prereq. Departmental Permission (See Accounting Advisor).

A special course designed to permit the accounting student to work on special projects under the supervision of an instructor with expertise in the area of the student's project. The special projects course will enable the accounting student to apply the accounting theory as covered in other courses.

Acct 0231 — Governmental Accounting (4)

Prereq. Acct 0211.

Governmental Accounting is a basic introduction to the accumulation and use of accounting information in non-profit organizations. General principles applying to budgets and funds are examined rather than specific application. The course should be especially useful for non-accounting (and accounting) students who will be employed in governmental units where budgeting and accounting are required.

Acct 0240 — Accounting Projects II (3)

Prereq. Departmental Permission (See Accounting Advisor).

A special course designed to permit the accounting student to work on special projects under the supervision of an instructor with expertise in the area of the student's project. The special projects course will enable the accounting student to apply the accounting theory as covered in other courses.

Acct 0241 - Auditing (3)

Prereq. Acct 0212 and 0222.

Independent audits, professional ethics, legal liability, internal control, auditing standards, work sheet applications and procedures. Concern will be given for audit evidence, the auditor's approach and techniques, summary reports, statistical sampling, and role of advisory services to management.

Acct 0242 — Business Communications (3)

Principles and techniques of effective letter writing; letter mechanics; writing of personal business letters including application letters; methods of writing business reports and letters — internal and external report as means of communication.

Acct 0291 — Advanced Accounting I (4)

Prereq. Acct 0213.

The course is a continuation of financial accounting theory as applied to special corporation problems including parent-subsidiary structures requiring consolidated reporting.

Acct 0292 — Advanced Accounting II (4)

Prereq. Acct 0291.

A continuation of financial accounting theory as applied to special situations such as partnerships, estates and trusts, and special sales contracts.

Acct 0310 — Field Experience I (2-3)

Prereq. AICPA Level II Achievement Test with equivalent of college senior or Accreditation Council of Accountancy Examination (see accounting advisor).

Provides qualified students with professional business training and experience in an actual job environment.

Acct 0311 — Field Experience II (2-3)

Prereq. Acct 0310 and AICPA Level II Achievement Test with equivalent of college senior or Accreditation Council of Accountancy Examination (see accounting advisor).

Provides qualified students with professional business training and experience in an actual job environment.

ANTHROPOLOGY

Anth 0201 — Introduction to Anthropology (5)

Origin of Man. Survey of evidence and interpretation structures of human biological evolution. Emphasis on fossil record, comparative primate behavior studies, and selected archaeological cultural sesequences

Anth 0250 — Principals of Cultural Anthropology (4)

Prereq. 0201.

Varieties and range of human behavior as revealed through comparative study of cultures in all parts of the world. Included consideration of kinship, ideology, politics, economics, and ecological adaptations.

ART

Arts 0101 - Studio Foundations I (5)

This course is required of all freshmen with an art concentration. The focus of the course will be on the basics of drawing and twodimensional design.

Arts 0102 — Studio Foundations II (5)

No Prereq.

This course is required of all freshmen with an art concentration. The focus of this course will be color and color theory.

Arts 0103 — Studio Foundations III (5)

No Prereq.

This course is required of all freshmen with an art concentration. The focus of this course will be three-dimensional design, introduction of materials and techniques of sculpture.

Arts 0201 — Art for the Elementary School I (3)

This course will be concerned with presenting art methods and ideas specifically geared to those teachers in elementary education.

Arts 0202 — Art for the Elementary School II (3)

Continuation of modern art approaches in the elementary school.

Arts 0210 — Photography I (4)

Introduction to Art and techniques of Photography.

Arts 0211 — Photography II (4)

Prereg. Arts 0210.

Continuation of Arts 0210 (offered on demand only).

Arts 0212 — Photography III (4)

Prereq. Arts 0211.

Continuation of Arts 0211 (offered on demand only).

Arts 0221 - Painting I (4)

Prereq. Art 101, 102.

The main concern of this course will be concentrated on the use of oils and synthetic painting media.

Arts 0222 - Painting II (4)

Prereq. Art 202.

A continuation and expansion of ideas and conceptualizations gained through Art 202.

Arts 0223 - Painting III (4)

Prereq. Art 203

A further expansion of ideas and conceptualization combined with technical insights through the previous two courses.

Arts 0224 — Watercolor I (4)

The focus of this course will be on the use of watercolor as an expressive media.

Arts 0225 — Watercolor II (4)

Prereq. Arts 0224.

A continuation and expansion of ideas and conceptualizations gained through Arts 0224.

*Arts 0231 — Ceramics I (4)

The focus of this course will be clay as the craftsman conceptualizes it. Work in all types of handbuilt pottery, raku pottery, clays and glazes.

*Denotes classes with Lab fees.

*Arts 0232 — Ceramics II (4)

Prereg. Art 231.

This course will be a continuation of Art 231 but introducing the potter's wheel as a means of utilizing clay. Glaze formulation and usage will be covered briefly.

*Arts 0233 — Ceramics III (4)

Prereg. Art 232.

This course will be a more in-depth continuation of the previous ceramics courses with more stress being placed on the craftsmanlike development and conceptualization of clay as a medium.

Arts 0245 - Printmaking I (4)

Prereg. Art 101, 102, 103.

An introduction to basic intalgio techniques. Emphasis will be on mastering techniques so that they can be used to develop personal imagery.

Arts 0246 — Printmaking II (4)

Prereg. Arts 245

An introduction to lithographic technique and printing. Emphasis is placed on mastering techniques so that they can be used to further personal aesthetic goals.

Arts 0247 — Printmaking III (4)

Prereq. Arts 246.

An introduction to the basic silk screen techniques. Emphasis will be on mastering techniques so they may be used to develop personal imagery.

Arts 0248 - Relief Printing (4)

Prereg. Arts 0247.

An introductory course exploring the range of graphic possibilities in the relief printing process

Arts 0251 — Graphic Design - Typography (4)

Prereq. 101, 102, 103.

Typography as a designer's tool and as communication. Emphasis upon design of symbols and typefaces.

Arts 0252 — Graphic Design - Illustration (4)

Prereg. Art 101, 102, 103.

Pictorial imagery as a design tool. Problems in product, poster, magazine and book illustration. Offered on demand only.

Arts 0253 — Graphic Design - Three-Dimensional (4)

Prereq. Art 101, 102, 103.

Examination of three-dimensional design problem with special attention to environments, packaging and display. Offered on demand only.

Arts 0261 — Art History I (4)

The Art History courses are designed to acquaint the student with a knowledge of the contexts of work of art and the continual discarding and rediscovery of values in that art. Course I covers ancient through 14th century.

Arts 0271 — Life Drawing I (4)

Prereq. Art 101.

Drawing the human figure in various media.

Arts 0272 — Life Drawing Ii (4)

Prereg. Art 271.

A continuation of Art 271.

Arts 0273 — Life Drawing III (4)

Prereg. Art 272.

A continuation of Art 272.

Arts 0280A — Topics in Art (2)

Arts 0280B — Topics in Art (3)

Study of the various art topics otherwise not available to students.

Arts 0290 --- Weaving I (4)

Prereg. Arts 101, 102, 103.

Introduction to weaving techniques through the construction and use of a simple loom and the use of the table or floor loom.

Arts 0291 - Weaving II (4)

Prereq. Arts 290.

Further examination and use of the 4-harness loom (2 credits). Offloom fibre techniques and the design, construction and use of hand looms (2-4 credits).

Arts 0292 — Fabric Design (4)

Prereq. Arts 0291.

Exploration of methods of printing and dyeing fabric as well as other methods of design application with cloth. Students will be encouraged to then use the fabric to make functional and nonfunctional objects.

AUTOMOTIVE TECHNOLOGY

*AuDi 0101 — Fuels and Lubricants (3)

A Lecture-Laboratory course involving a study of the chemical structure of petroleum based fuels and lubricants and how they meet the operational demands of diesel and gasoline engines and power transmission components. Failures caused by fuel and lubricant breakdown are given special attention along with exhaust emission problems.

*AuDi 0102 — Basic Electricity (4)

A Lecture-Laboratory course designed to familiarize the student with the fundamentals of electrical theory, circuits, motors, generators, and alternators. The laboratory will provide an opportunity to construct several automotive electrical circuits and use electrical measuring instruments. This course is an introductory experience designed to provide a foundation for advanced work. Basic hand tools are required.

*AuDi 0111 — Electrical and Fuel Systems I (5)

Prereq. AuDi 0102.

A Lecture-Laboratory course designed to provide the student with an opportunity to apply electrical and electronic fundamentals to the operation of autmotive-diesel charging systems, starting systems, lighting and accessory circuits. Carburetion fundamentals are explored in depth and emission control systems are introduced. Basic hand tools are required.

*AuDi 0112 — Electrical and Fuel Systems II (5)

Prereq. AuDi 0111.

A Lecture-Laboratory course emphasizing the theory and testing of breaker point and electronic ignition systems. Electronic fuel injection and turbocharging are introduced. Basic hand tools are required.

*AuDi 0121 — Principles of Internal Combustion Engines (6)

A Lecture-Laboratory course emphasizing the design, construction and operation of modern internal combustion engines. Four stroke cycle, two stroke cycle, diesel, rotary and turbine engines will be included. Basic hand tools are required.

*AUTO 0201 — Power Drive Train (5)

A Lecture-Laboratory Course covering the theory, disassembly, inspection, reassembly and adjustment of differentials, three and four speed manual transmissions and four speed manual transaxles. Related drive train components are also discussed. Basic hand tools are required.

*AUTO 0211 — Testing and Repair (6)

Prereq. AuDi 0101, AuDi 0102, AuDi 0111, AuDi 0112, AuDi 0121.

A Lecture-Laboratory experience designed for the advanced student.

Correct diagnosis of difficult electrical and fuel system malfunctions are practiced utilizing all laboratory resources. Basic hand tools are required.

*AUTO 0212 — Chassis (6)

A Lecture-Laboratory course including contemporary front and rear suspension systems. Steering system geometry is discussed and front end alignments are performed. Basic hand tools are required.

*AUTO 0221 - Service Area (2)

Prereq. AuDi 0101, AuDi 0102, AuDi 0111, AuDi 0112, AuDi 0121, AUTO 0201, AUTO 0212, AUTO 0223.

A service area program designed to provide the student with field-type service work in a controlled instructional setting. The student is given the opportunity to make practical application of the technical material presented in previous courses. Special emphasis is placed on the vehicle service needs which are most frequently requested in modern commercial service centers. Basic hand tools are required.

*AUTO 0223 — Air Conditioning and Brake Systems (3)

A Lecture-Laboratory course including heating and air conditioning theory as applied to modern passenger car systems. Diagnostic procedures are emphasized and common service operations are performed. The course also includes a study of the design, theory of operation, and service procedure on passenger-car disc and drum brake systems. Basic hand tools are required.

*AUTO 0224 — Automatic Transmissions (5)

A Lecture-Laboratory course emphasizing the design, construction and operation of passenger-car automatic transmissions and transaxle assemblies. Students disassemble, inspect, and reassemble selected General Motors, Chrysler, and Ford units demonstrating correct troubleshooting and service procedures. Basic hand tools are required.

AUTO 0225 — Service Management Practices (4)

A Lecture-Laboratory course covering the principles involved in management of automotive service facilities. Content includes establishing objectives, organizational problems, personnel management, merchandising, pricing, warranty claims, and customer relations.

BANKING AND FINANCE

BaFT 0101 — Principles of Banking and Finance I (3)

Monetary standards, commercial and central banking. Federal Reserve functions and statements, monetary and income theory, problems of monetary and fiscal stabilization, international payments, and the International Bank and Monetary Fund.

BaFT 0102 — Principles of Banking and Finance II (3)

A study of banking operations and management. Course is designed as an introduction to the administration and operation of commercial banks and saving and loan banks. Management of banking funds with liquidity. Investment characteristics of securities. Analysis of objectives, risks and yields, and outlets for individual and institutional funds.

BaFT 0105 — Installment Credit (3)

Procedures, forms, government regulations, delinquency and collections, interest rates, background of installment credit.

BaFT 0106 — Principles of Bank Operations (3)

Basic course stating a history of banking, developing of Federal Reserve System; three main duties, safekeeping, transfer of funds, lending. Examination and governmental examination. Field work and problems concerning the operation of commercial bank and savings and loan institutions. On the job visitation to various banks.

BaFT 0202 — Home Mortgage Lending (4)

A course covering the basic principles of home mortgage lending. A study of the procedures use from the opening to closing of mortgages. A complete study of all necessary forms, rules, and regulations the buyer should know in obtaining a loan.

BaFT 0204 - Investments I (4)

A course consisting of assignments dealing with the various investment alternatives, as well as general and specific information that must be considered before thought is directed toward particular industries and companies. Also included are the tools and sources that are needed for analysis necessary before making wise investment decisions.

BaFT 0206 — Investments II (4)

Part II of this course is more analytical and involves the actual art of investing. It proceeds from an analysis of the needs and the determination of objectives to the careful and analysis and selection of industries and securities appropriate for realizing those objectives.

BaFT 0208 -- Supervision of Personnel Administration (3)

Training of all new employees, and supervision of the physical facilities.

BIOLOGICAL SCIENCES

*Biol 0105 — Field Biology (3)

An introduction to basic life processes including the structure and function of plants and animals. Laboratory work emphasis is on the identification and natural history of local flora and fauna, with special attention to trees and shrubs. 2 lec. 4 lab.

*Bioi 0111 — Principles of Biology (5)

Introduction to principles and concepts of life; emphasis on interrelationships of structural, functional, reproductive, evolutionary and ecological principles related to cells and organisms. 4 lec. 2 labs.

*Biol 0112 — Plant Biology (5)

Prereq. Biol. 111.

Morphology and anatomy of seed plants as related to function. Survey of plant kingdom with emphasis on evolutionary relationships and life histories of selected plant groups. 4 lec 2 labs.

*Biol 0113 — Animal Biology (6)

Prereq. Biol. 111.

Principles of development, anatomy, physiology, behavior and laboratory survey of major phyla. Designed primarily for majors in the sciences and preprofessional students. 4 lec. 3 labs.

*Biol 0200 — Human Anatomy and Physiology (4)

A general survey of the structure and function of the human body. Not applicable for students requiring biology 0290B and 0291B. 3 Lec. 3 leb

*Biol 0210 — Trees and Shrubs (5)

Prereq. Biol 112 (fall quarter). (Offered on demand only). Collection, identification, nomenclature, classification, ecological relationship of native, introduced and cultivated woody plants. 3 lec. 4 labs. 2 Saturday field trips.

Biol 0211 - Spring Flora (5)

Prereq. Biol 112. Spring Quarter. (Offered on demand only). Identification, nomenclature, classification of spring flowering plants. Origin, and evolution of flora of Ohio. 3 lec. 4 labs.

*Biol 0215 — Ecology (3)

A study of the interrelationships among the many elements in an environment. A historical approach looks at the concept of evolution, man's impact upon the environment, and common ecological problems faced by parks. Labs introduce common and basic ecological techniques. 2 lec. 3 lab.

Biol 0225 — General Genetics (5)

Prereg. Biol 111. (Offered on demand only).

Principles and concepts of genetics as revealed by classical and modern investigation. 5 lec.

*Biol 0235A — Microbiology 4 hrs. cr. (3 Lec. 3 Lab.)

*Biol 0235B — Microbiology 5 hrs. cr. (4 Lec. 3 Lab.)

Prereq. Biol 111 or permission.

A survey of representative types of micro-organisms. Emphasis is placed on cellular structure and physiology, nutritional and environmental requirements and methods of reproduction. Introduction to the role of pathogenic organisms in carrying diseases and infections. Principles of immunity and resistance to disease. Laboratory includes methods of sterilization, culture, staining and identification. 3/4 lec. 4 labs.

*Biol 0290B — Principles of Anatomy and Physiology I 5 hrs. cr. (4 Lec. 3 Lab.)

Prereg Biol 111 or permission

Morphological and physiological aspects of cells and tissues and of the dermal, neurosensory, skeletal, and muscular systems of the human body. 4 lec. 3 lab.

*Biol 0291B -- Princples of Anatomy and Physiology II 5 hrs. cr. (4 Lec. 3 Lab.)

Prereq. Biol 290B.

Continuation of Biol 290B, Morphological and physiological aspects of the circulatory, respiratory, digestive, urinary, reproductive, and endocrine systems. 4 lec. 3 lab.

Biol 0299A — Special Topics in Biology (2) Biol 0299B — Special Topics in Biology (3)

Prereq. Biol 111 or permission of instructor.

Individual or small-group study, under supervision of instructor, of topics not otherwise available to students.

BUSINESS LAW

BusL 0250 - Business Law I (4)

Introduction to major points of business law, based principally on Uniform Commercial Code; consideration of Uniform Acts relating to specific legal areas. Contracts, agency and employment, negotiable instruments, personal property, and bailments.

BusL 0260 — Business Law II (4)

A second quarter of the study of Business Law in which the subject matter covered includes partnerships, corporations, real property and leases, nature of insurance, mortgages, nature of bankruptcy, trusts and estates, and basic business regulations by government.

CHEMISTRY

*Chem 0121 — Introduction to Inorganic Chemistry (4)

An introductory course in fundamental chemical concepts and laboratory techniques. Atomic structure, periodic classification of elements, chemical equations, chemical calculations, solutions, acids and bases, oxidation, reduction, reactions, and the gas laws. 3 lec. 3 lab.

Recommended for students in allied health technologies and university parallel programs requiring general chemistry or physical science elective(s).

*Chem 0122 — Introduction to Organic Chemistry (4)

Prerea. Chem 0121.

A course in fundamental organic chemistry. The study of carbon compounds; aliphatic hydrocarbons, alcohols, ethers, aldehydes, ketones, organic acids, esters, amines, and aromatic compounds. 3 lec. 3 labs.

*Chem 0123 — Physiological Chemistry (4)

Prereq. 0122.

This course is an introduction to physiological chemistry. Organic chemistry and metabolism of carbohydrates, lipids, and proteins is discussed with emphasis on metabolic pathways, enzymes, hormonal control of metabolism, metabolic energy for muscular work, composition of body fluids, and metabolic relationships among major organs. Pathological conditions related to metabolism are discussed Recommended for students in technical programs in allied health fields (except nursing). (3 hrs. lec. - 3 hrs. lab).

*Chem 0141 — Chemistry I: General (4)

Prereq. H.S. algebra and H.S. chemistry recommended.

Designed to provide an introduction to chemistry through the study of fundamental chemical concepts, stoichiometry, gas state, atomic theory, periodic classification, atomic structure, and nuclear chemistry. 3 lec. 3 lab.

Recommended for students in plastics technology, chemical technology, and transfer programs requiring three quarters of freshman chemistry (medicine, optometry, microbiology, denistry, forestry, pharmacy, veterinary, engineering, medical technology, botany, zoology, physics, science education, etc.).

*Chem 0142 — Chemistry II: Chemical Energetics (4)

Prereq. Chem 141.

Designed as an introduction to chemical bonding, coordination chemistry, condensed states, chemical thermodynamics, chemical kinetics and chemical equilibrium. 3 lec. 3 lab.

*Chem 0143 — Chemistry III: Quantitive Analysis (4)

Prereq. Chem 0142.

An introduction to ionic equilibrium, and principles of quantitative analysis. Emphasis placed upon classical gravimetric and volumetric analysis. 3 lec. 3 lab.

*Chem 0202 — Process Instrumentation (4)

Introduction to measurement and control systems for temperature, pressure, and fluid flow. Dynamic response characteristics of instruments and calibration methods.

*Chem 0205 — Organic Chemistry (4)

Prereq. Chem 0143.

A course for students wishing to acquire a sound knowledge of classical and modern organic chemistry. 3 lec. 3 labs.

*Chem 0206 — Organic Chemistry (4)

Prereq. Chem 0205.

Continuation of 205. See 205 course description. 3 lec. 3 labs.

*Chem 0207 — Organic Chemistry (4)

Prereq. Chem 0206.

Continuation of 205-206. See 205 description. 3 lec. 3 labs.

*Chem 0211 — Unit Operations I (4)

Prereq. Math 131 and PEng 0206.

Fundamentals of distillation, filtration, drying extraction, mixing, absorption, etc. Related laboratory.

*Chem 0212 — Unit Operations II (4)

Prereq. Chem 0211.

Continuation of Unit Operations I. Fundamentals of heat transfer, mass transfer, fluid flow, and related laboratory experiences.

*Chem 0224 — Instrumental Analysis I (5)

Prereq. Chem 0143.

An introduction to methods of chemical analysis by spectrophotometry. The topics include U.V./visible, infrared, atomic absorption, flame emission, and X-ray methods. 3 lec. 6 lab.

*Chem 0225 — Instrumental Analysis II (5)

Prereq. Chem 0224.

An introduction to methods of chemical analysis by chromatography and electroanalytical chemistry. Topics include solvent extraction; various types of chromatography including gas, liquid, ion exchange, thin layer, and paper; potentiometric, coulometric, and amperometric titrations; electrodeposition; and polarography. 3 lec. 6 lab.

CIVIL ENGINEERING

CEng 0101 — Introduction to Surveying (3)

Surveying and its applications; the surveying method. Introductory topics in plane geometry, trigonometry, and computations to prepare the student for plane surveying. Introductory discussions and lectures on surveying equipment, nomenclature, general field procedures, cleaning and care of instruments, and to give the student an overview of the surveying profession.

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*CEng 0111 — Surveying I (3)

Prereq. CEng 0101 or advisor approval.

Setting up the transit; use of the transit, turning angles, prolongation of a straight line; setting up the level; running circuits of levels; horizontal measurement; tape corrections; keeping field notes.

*CEng 0112 — Surveying II (3)

Prereq. CEng 0111.

Leveling procedures; establishing line and grade for construction; topographic surveying, traverse and traverse computations; the elements of the use of aerial photographs.

*CEng 0113 — Route Surveying I (3)

Prereq. CEng 0112.

Transportation systems; route surveys by ground and aerial methods; circular curves; compound curves; parabolic curves.

*CEng 0114 — Route Surveying II (3)

Prereg. CEng 0113.

Transition spiral, spiraled compound curves, elements of highway safety and design, drainage surveys; field application of route surveys.

CEng 0115 — Surveying for Civil Engineers (3)

Prereq. CEng 0114.

Advanced surveying methods. Boundary surveys, United States Public Land Surveys, fundamental survey control and the state coordinate systems, planning and estimating from topographic maps, celestial observations, mine survey, city survey, new precision surveying instruments and methods geodimeter and one second theodolite.

*CEng 0201 — Concrete Design (4)

The theory of modern concretes. Practices of making, placing, and curing Portland cement and asphaltic concretes. Design of batches, testing of compounds, and testing of specimens of concrete.

CEng 0202 — Civil Engineering Law (2)

A study of those phases of law directly associated with the Civil Engineering field. Contracts, specifications, construction documents, responsibility, negligence.

CEng 0203 - Statics (3)

Prereq. Math 0131.

Statics is the study of external forces acting on rigid bodies in equilibrium. The study includes types of forces, reactions, vectors, moments. The laws governing the actions and resolutions of these forces.

CEng 0204 — Construction Supervision(3)

Prereq. CEng 0211 or advisor approval.

A study of construction bidding, planning, scheduling, and controlling. The critical path method (CPM) is used.

*CEng 0205 — Hydraulics for Civil Engineering (2)

Prereg. Math 0131 and Phys 0201.

This course is oriented toward water supply and distribution. Topics include Pascal's Law, Bernoulli's Theorem, flow of water in pipes, distribution systems, and pumps.

CEng 0206 — Engineering Problems and Field Inspection (1)

Actual field visitations, office computations; use of office machines, reducing field notes, report forms, state and federal interpretation of highway code.

CEng 0207 — Strength of Materials I (3)

Prereq. CEng 0203 and CEng 0205.

The study of tension, compression and shear stress, deformation, engineering materials, torsion, centroids and moments of inertia of areas

*CEng 0208 — Soil Materials and Testing (3)

Prereq. CEng 0201 or advisor approval.

Engineering tests of soils for design and control to meet ASTM Standards. Testing for moisture content, standard compaction, proctor penetration, sieve analysis, hydrometer analysis, and unconfined compression.

CEng -211 — Highway Construction I (4)

Highway economics and finance, highway planning, geometric design of highways, drainage, and drainage structure. Traffic survey, driver and vehicle characteristics. Traffic routing, safety.

CEng 0212 — Highway Construction II (4)

Prereg. CEng 0211.

Advanced. Earthwork operations and equipment; thickness design of flexible pavements and bases; soil aggregate roads and stabilization; bituminous surface treatments; highway maintenance.

COMPARATIVE ARTS

ComA 0101 — Survey of the Arts (4)

Analysis of form, media, and content of major arts stressing interrelationships of architecture, dramatic art, music, literature and painting through recognition of common art factors. Use of tapes, slides, and recordings. Three quarter sequence.

ComA 0102 — Survey of the Arts (4)

Analysis of form, media, and content of major arts stressing interrelationships of architecture, dramatic art, music, literature and painting through recognition of common art factors. Use of tapes, slides, and recordings.

ComA 0103 — Survey of the Arts (4)

Analysis of form, media, and content of major arts stressing interrelationships of architecture, dramatic art, music, literature and painting through recognition of common art factors. Use of tapes, slides, and recordings.

CORRECTIONS

CorT 0101 — Introduction to Corrections (3)

This course will allow a person an opportunity to study the history of corrections, concepts of treatment versus punitive measures, and to have an understanding of the objectives of corrections.

CorT 0102 — Criminology (3)

This course will allow the student an opportunity to have a comprehensive understanding of criminal activity in America and how various controls affect the criminal behavior of our society.

CorT 0103 — Juvenile Delinquency (3)

This course will cover an in-depth study of juvenile delinquency, prevention of delinquency, interpretation of the role of society, and the administration of juvenile justice.

CorT 0104 — Criminal Law (3)

A study of the principles of criminal law with emphasis upon their application in Ohio criminal proceedings, from offense report through arrest and trial.

CorT 0105 — Probation and Parole (4)

This course will provide an opportunity for a student to study the why, how, and when of probation and parole. The course will provide an understanding of what one could look forward to in the future in relation to probation and parole.

CorT 0106 — Constitutional Law (3)

A general overview of the U.S. and Ohio constitutions with special emphasis upon application of current interpretation appropriate to the criminal justice system and corrections operations.

CorT 0107 — Philosophy of Corrections (2)

A study of correctional philosophy is intended to aid the correction officer in understanding the organization of which he is a part, and to enhance consistency of job performance.

CorT 0121 — Correctional Field Experience (1)

Minimum of three hours of assigned field experience per week in police department, municipal courts, correctional institutions and juvenile centers. A research paper is required for each correctional internship.

CorT 0122 — Correctional Field Experience (1)

Minimum of three hours of assigned field experience per week in police department, municipal courts, correctional institutions and juvenile centers. A research paper is required for each correctional internship.

CorT 0123 — Correctional Field Experience (1)

Minimum of three hours of assigned field experience per week in police department, municipal courts, correctional institutions and juvenile centers. A research paper is required for each correctional internship.

CorT 0201 — Correctional Interview and Counseling Techniques (3)

A study of interviewing and counseling techniques, in general, and their specific applications to corrections. Some special problems to be considered are: the involuntary client, independence in the closed setting, and relationship building.

CorT 0202 — Drug Abuse (3)

This course will deal with identification of users, effects of drugs, rehabilitation of drugs users, and the role of an institution in combating the internal drug abuse problem.

CorT 0203 — Correctional Psychology (4)

Psychology dealing with problems with predominant to the personalities entering a correctional facility. Level quay psychology - psychoanalytic. He will be expected to know where the various approaches are being used and be required to study one of them in depth.

CorT 0204 — Correctional Law (5)

This course will allow the student to have an understanding of constitutional, criminal, and correctional law. He will study how interaction of these laws control our human behavior.

CorT 0205 — Group Interaction (2)

A three-credit course, the purpose of which is to introduce students to the complexities of interpersonal relationships. The prerequisite in Introduction to Psychology. Students will meet as a group on a regular basis in order to exchange ideas about themselves and others. The aim of the course is for students to gain a greater understanding of themselves, to increase their sensitivity to others, and to facilitate communications.

CorT 0206 — Correctional Case Evaluation (5)

This course will allow a student to first select a certain type of criminal case. Then he will have an opportunity to meet with the individual who is connected with the case and develop a program, along with his supervisor, which would provide an opportunity for rehabilitation.

CorT 0207 — Observation Techniques (2)

This course will teach an individual how to observe, how to interpret what he is observing, how this would be used in the rehabilitation process, and the value of observation in relation to institutional security.

Cort 0208 — Correctional Programs (5)

This will deal with all of the programs which the correction field uses in its systems — treatment, social services, pre-release, religion, discipline, visitation, education, etc.

CorT 0209 — Research Appreciation in Corrections (5)

The student will select a research project in relation to correction. He will develop the project and explore the various methods of research that would be associated with the project.

CorT 0210 — Principles of Leadership (4)

This course will help officers evaluate their own understanding of human relations and pinpoint areas of strength and weakness in relationship with leadership skills: How to understand the drives that motivate man in his work; how to praise, how to reprimand, how to handle disciplinary problems, and techniques of communicating ideas.

^{*}Denotes classes with Lab fees.

CorT 0212 — Community Programs (5)

This course will explore the programs which could bring together the institution and the community, so each would be able to identify its role and understand how, by uniting forces, the rehabilitation process would be expedited.

DATA PROCESSING

*EDPT 0101 — Basic Language (3)

An introductory course in computer programming using the BASIC language. Writing, testing, and debugging simple programs will be required.

*EDPT 0102 — Introduction to Data Processing (3)

Historical background, computer applications, social implications, data representation and numbering systems, file organization, flow charting, and a survey of programming languages.

*EDPT 0103 - COBOL ! (4)

Prereg. EDPT 0102.

Common Business Oriented Language (COBOL) programming with emphasis on American National Standard capability. The student will write several programs using punched cards, magnetic tape, sequential disk files and line printer. Flow charting, coding, testing debugging, and documentation are required.

*EDPT 0104 - COBOL II (4)

Prereq. EDPT 0103.

COBOL programming to include advanced techniques, table lookup, random and indexed file processing, terminal utilization, and structured programming. The student will write several programs and document them.

*EDPT 0105 — Systems Analysis & Design (4)

Prereq. EDPT 0102 and one computer language or department permission.

Basic concepts and standard conventions concerning system design and analysis including problem definition, information requirements, system flow charting, system study, and various documentation techniques. Structured systems and centralized — decentralized approaches.

*EDPT 0106 — RPG II Language (4)

Prereq. EDPT 0102.

A programming course in Report Generator II (RPG) Language. The basics of an RPG program — input, output, calculation, and file specifications — and advanced techniques in disk processing. Writing, testing, debugging and documentation of programs will be required.

EDPT 0201 — Computer Operations Management (3)

Prereq. EDPT 0102.

Personnel policies, computer management procedures, equipment acquisition, and management of resources as it relates to data processing problems. Instruction of basic management principles to effectively manage a computer system, computer personnel, and resources.

*EDPT 0202 — Business Computer Projects I (4)

Prereq. EDPT 0104 or 0106 and EDPT 0105 or department permission. An individual or team will design, program, and execute a solution to a data processing problem using a language previously learned by the student. Actual business/industrial problems or simulations will be used. Documentation and oral presentation will be required.

*EDPT 0203 — Computer Applications (3)

Prereq. EDPT 0102 or department permission.

A study of the kinds of applications and systems for which computers are used such as banking, production control, computer assisted instruction, typesetting, airline reservations, cost accounting, and teleprocessing.

*EDPT 0204 — Business Computer Projects II (3)

Prereq. EDPT 0202

An advanced workshop providing for additional experience in applying computer technology to real world problems.

*EDPT 0205 — Business Data Systems & Communications (3)

Prereq. EDPT 0102 and one computer language or department permission.

A study of man-machine interactions through teleprocessing, telecommunication systems. Emphasis on current timesharing languages and data base, and management information systems (MIS). Problem solving techniques requiring the use of terminals will be learned. Laboratory project included.

*EDPT 0206 - Fortran IV (4)

Prereq. MATH 0130.

A basic course in Fortran. Fortran arithmetic, formats, do loops, arrays, program flow charting, testing debugging, and documentation will be discussed and implemented using the computer. The student will write several programs to solve statistical math and elementary science problems.

*EDPT 0261 — Accounting With D.P. Applications (4)

To have the students understand the need for accounting and how it relates to Data Processing. To show how a computer can be used to aid the accountant. To have the students understand that the computer is a tool to be used in accounting and to point out ways it can be used to aid accounting.

DENTAL HYGIENE

DtHy 0101A - Radiology I (1)

Didactic instruction in the history and development of the dental x-ray. Emphasis on the nature and properties of the x-ray — ma, Kvp, exposure time, target film distance, film speed, shortcone, long cone, XCP instrumentation, etc. Theory of the fundamentals of oral radiographic techniques. Regulations and safety precautions, as well as the uses of x-ray in denistry.

DtHy 0101B — Radiology II (2)

Continuation of Radiology I. Emphasis on technique, film placement, tube angulation, exposure, "bisect the angle" and XCP techniques. Darkroom instruction — processing and duplication, adverse factors affecting darkroom procedures. Mounting of films, examining radiographs and recognizing normal landmarks, as well as abnormalities. Laboratory instruction will be in depth as to technique. Throughout the second year, specific minimum numbers and types of radiographs will be required clinically.

^{*}Denotes classes with Lab fees.

DtHy 0102 — General and Oral Histology and Embryology (3)

Study of development of tissues and structures from a histological and embryological basis. Emphasis on development of the tissues of the teeth, and other oral structures and their functions. A thorough understanding is necessary for subsequent courses: Pathology, Periodontology, Radiology, etc.

*DtHy 0103 — Dental Materials (5)

Physical properties of materials used in dentistry and basic principles of their preparation and use. Techniques for using restorative materials, impression materials, and laboratory procedures. In a laboratory setting, students learn techniques in working with the various types of dental materials.

DtHy 0111 — Head & Neck Aantomy I (2)

Detailed study of the anatomy of the head and neck. Special emphasis is made toward the face and jaws. Cranial skeleton with emphasis on facial bones. Muscles of the head and neck: functions, nerve and blood supply. Detailed study of the circulatory system. Lymphatic drainage; importance and anatomy. Temporomandibular joint; function and anatomy. Detailed study of topographical and functional anatomy of oral cavity and pharynx.

DtHy 0112 - Head & Neck Aantomy II (2)

A further study of the anatomy of the head and neck. Emphasis is placed on nerve supply, salivary glands, fascia and planes of the head and neck region.

DtHy 0113 — Tooth Morphology I (1)

Study of evolution of tooth form, physiology and fundamentals of tooth form, supporting structures of the teeth and positions and relationships to other structures of oral cavity. The primary dentition is discussed thoroughly and comparisons made with the permanent teeth. The permanent dentition is then studied in general. Laboratory includes drawings of permanent teeth, and identification of extracted teeth.

DtHy 0114 — Tooth Morphology II (1)

A further study of tooth form and mechanisms of the dental apparatus. More emphasis is placed on carving selected teeth from wax to understand anatomy and contours, and identification of extracted teeth.

*DtHy 0121 — Clinical Dental Hygiene I (4)

The introduction to the professional including History & Development of Dental Hygiene; medico-dental terminology; principles of preventive denistry, the roles of plaque, nutrition, fluoride; principles and methods of patient education plaque removal and control; the prevention of disease transmission; study of etiology of the formation of calculus and stains; diagnostic data collection; guidelines for professional appearance; patient/operator positioning, basic instrumentation, design and construction of instruments and instrument sharpening; lab practice on typodonts for manual dexterity in the control and use of instruments and the transferring of acquired skills to a living subject.

*DtHy 0122 — Clinical Dental Hygiene II (4)

The hygientist's role in dental hygiene patient care which includes the objectives for the practice of dental hygiene care, the introduction to general clinic routines and importance of complete patient records and screening techniques. Skills practices included are detection of hard and soft deposits, scaling and polishing techniques, study of occlusion, study casts, charting, techniques of fluoride application, oral hygiene assessment, patient education and management techniques, and medical and dental emergencies.

*DtHy 0123 — Clinical Dental Hypiene III (4)

A continuation and review for the application of previously learned techniques and procedures of dental hygiene care and services in the clinic atmosphere that the dental hygienist could perform in practice. Advanced skills include desensitization, use of cavitron, use of radiographs in evaluation and charting, principles of sit-down four-handed denistry and the handling of patients with special needs and problems.

*DtHy 0124 — Clinical Dental Hygiene IV (6)

A continuation of Clinic III techniques and procedures; dental office practice management and special seminars.

*Denotes classes with Lab fees.

*DtHy 0125 — Clinical Dental Hygiene V (5)

A continuation of clinic procedures and practices with further study in nutritional counseling, legal and ethical factors involved in the profession, special seminars on dental specialties, expanded duties, and extra-mural clinic assignments.

*DtHy 0126 — Clinical Dental Hygiene VI (5)

The continuation of clinical procedures in the delivery of dental hygiene care. Advanced clinical techniques and seminars are included.

*DtHy 0127 — Clinical Dental Hygiene VII (5)

Complete dental hygiene care involving patient case reports; seminars.

DtHy 0201 — General and Oral Pathology (3)

An introduction to pathology. Processes of inflammation, necrosis, retrograde changes and wound healing are discussed. Etiologies, diagnosis, treatment and prognosis of oral lesions are discussed. Clinical pathology of diseases affecting teeth and their supporting structures. Visual aids are used to study oral lesions and their clinical manifestations.

DtHy 0202 — Peridontics (3)

A study of the peridontal tissues which surround and support the teeth. Etiologies and classifications of periodontal disease. Treatments and principles of periodontics are discussed.

DtHy 0203 — Nutrition (3)

A study of normal nutrition and its role in promoting good health. Includes composition and functions of foods, digestion and metabolism. Nutritional needs throughout the life cycle. Special emphasis placed on nutritional counseling.

DtHy 0204 — Pharmacology and Anesthesiology (4)

Drugs and anesthetics used and encountered in dentistry. Discussion of the origin, physical and chemical properties, effects on body systems, indications and contraindications for use, and method of administration and elimination.

DtHy 0205 — Dental Health Education (3)

Analysis of concepts, techniques of presentation and goals of Dental Health Education. Major emphasis is placed on preparation and use of lesson plans and instructional materials for teaching dental education. Classroom instructions of dental health in Elementary and Secondary Schools.

DtHy 0206 — Public Health (3)

Historical development of public health practices in the United States as they relate to Dental Hygiene; present administrative organizations and their functions and services; exploration of present public health concepts.

DtHy 0250 — Expanded Functions I (4)

To introduce the student to the restoration of cavity preparations with amalgam and tooth-colored materials in a simulated clinical environment. The student will be evaluated on performance immediately following the completion of the clinical procedure.

DtHy 0251 — Expanded Functions II (2)

To give the student practice in the restoration of cavity preparation in a real clinical environment. The student will complete a sufficient number of restorations to qualify them for expanded functions in the dental office under the supervision of a dentist.

DIESEL

*DSEL 0201 — Heavy Duty Drives (6)

A comprehensive study of typical heavy-duty power transmission units used in trucks, tractors, and crawlers. Units include clutches, transmissions, differentials, drive axles, track drives, propeller shafts, universal joints, power take-offs, and winches. Basic hand tools are required.

*DSEL 0202 — Diesel Engines ! (6)

A Lecture-Laboratory course emphasizing the design, construction, and operation of two and four stroke cycle diesel engines. A turbocharged engine is completely disassembled, inspected, reassembled, and adjusted to satisfactory running condition. Basic hand tools required.

*DSEL 0203 — Diesel Engines II (6)

Prereg. DSEL 0202.

A Lecture-Laboratory course with special emphasis on fuel injection systems. A supercharged diesle engine is disassembled, inspected, reassembled, and adjusted to satisfactory running condition. Basic hand tools are required.

*DSEL 0211 — Diesel Fuel Injection (6)

This course is a lecture and laboratory combination including a study of diesel fuels, primary and secondary fuel distribution, and injection systems. Instruction is provided on common rail systems, unit injectors, and primary pump systems as used on trucks and heavy equipment applications. Basic hand tools are required.

DSEL 0221 — Service and Maintenance Management (4)

A Lecture-Discussion course designed to provide practical orientation to the management functions of heavy equipment and trucking service centers. Accent is placed on the following topics: preventive maintenance records, equipment control records, inventory control, vehicle operational costs, part procurement procedures and shop supervision. Information is presented on the rules and regulations pertaining to equipment maintenance as prescribed by the Department of Transportation.

*DSEL 0222 — Heavy Duty Automatic Transmission (3)

A Lecture-Laboratory course including the theory of torque convertors, power transmission, planetary systems and hydraulic controls. Students participate in the disassembly, inspection, adjustment, and reassembly of modern heavy duty automatic transmissions. Basic hand tools are required.

ECONOMICS

Econ 0101 — Principles of Economics I (4)

Introduction to basic economic issues, terminology, and theory. Macro economics: including national income analysis, business cycles, role of institutions, and economic growth.

Econ 0102 — Principles of Economics II (4)

Prereq. Econ 101.

Micro economics: the study of the development and application of basic tools of analysis, applied to the different forms of competition, income distribution, trade, and international payments.

Econ 0206 — Consumer Economics (4)

The purpose of this is to help social services technology students become informed about buying, money management, and issues so that they can individually or collectively make changes which will strengthen the American market place.

EDUCATION

Educ 0101 — Introduction to Education (4)

An introductory study of the broad and complex field of education. Emphasis on professional and personal requirements for successful teaching.

ELECTRO-MECHANICAL ENGINEERING

*EMng 0101 — Electro-Mechanical Devices (3)

Prereq. EMng 0112 concurrently or advisor approval.

An introduction to devices where both electrical and mechanical principles are utilized. The course content includes DC motors and generators, 3-phase circuits, transformers, induction motors, alternators, and synchronous motors.

*EMng 0103 — Electro-Mechanical Drawing (2)

Prereq. EnDr 0101 or advisor approval.

The study of mechanical drawing of both electrical and electronic circuits and components using electrical and electronic symbols. Drawing assignments include power distribution, logic diagrams, printed circuits, and schematics and pictorial views.

*EMng 0111 — Electrical Fundamentals I (4)

Prereq. Math 0130 concurrently or advisor approval.

An introductory course in the study of electricity. Basic definitions of energy and electricity are introduced which lead to studies of resistance, Ohm's law, series and parallel circuits, magnetism, simple meters, inductance, and capacitance. Direct current effects only are studied.

*Denotes classes with Lab fees.

*EMng 0112 — Electrical Fundamentals II (4)

Prereg. EMng 0111 or advisor approval.

Simple inductance-resistance and capacitance-resistance transient circuits are initially studied. Studies of alternating current fundamentals, phasor algebra, AC circuit analysis, power factor, and resonance complete the course.

*EMng 0121 — Electronics I (4)

Prereq. EMng 0112 or advisor approval.

A modern introduction to discrete, bipolar solid state electronic devices and basic electronic circuits including small signal amplifiers, transistors biasing, equivalent circuits, electronic unregulated DC power supplies, and special solid state devices.

*EMng 0122 — Electronics II (3)

Prereq. EMng 0121 or advisor approval.

Continuation of Electronics I. Frequency response, decibels, cascaded amplifiers, feedback amplifiers, power amplifiers, field effect amplifiers, unijunction transistors, control circuits, regulated DC power supplies, and solid state oscillators.

*EMng 0201 — Introductory Electro-Mechanical Systems (3)

Prereq. EMng 0112, 0101, 1021.

An introduction to systems which use both electrical and mechanical principles. Thermal, hydraulic, pneumatic, vacuum, magnetic and optic systems are utilized to stress the coordinated combination of previously learned concepts. A key course in the program.

EMng 0202 — Mechanical Analysis (4)

Prereq. Math 0131.

The analysis of forces or loads acting upon a body or structure, and how the structure is enabled to resist these external forces. A study of statics and strength of materials of many of the common industrial structures such as beams riveted and welded joints, and thin walled pressure vessels. This includes the equilibrium of forces, tension, compression and shear stress, deformation, torsion, centroids and moments of inertia.

*EMng 0203 — Mechanics and Dynamics (2)

A study of stresses, vibrations, linkages, gears, and other machine elements found in complex electro-mechanical systems. Logical application of theory to the design and functioning of machine elements.

*EMng 0204 — Control Devices (3)

Prereq. EMng 0122 or advisor approval.

Control devices respond to a variety of inputs. These may be created by temperature changes, pressure variations, rates of flow, potentials generated by light energy, moisture conditions, or any one of a number of physical conditions.

*EMng 0205 — Automatic Control Systems (4)

Prereq. EMng 0101, 0112, 0122, 0202, Math 0131, 0132, Physics 0201 or advisor approval.

Electro-mechanical systems are controlled by many different types of inputs and produce a vast variety of outputs. Commercial equipment response to pneumatic, hydraulic, and electrical or electronic inputs will be investigated. The purpose of the course is to consider the various basic control systems — on-off, proportional, proportional plus reset, and proportional plus reset plus rate.

*EMng 0206 — Hydraulics and Pneumatics (3)

A study is made of the function of various basic components of hydraulic and pneumatic sub-systems and methods of combining them to build various systems. The emphasis is on the use of hydraulic and pneumatics for power transmission and for control purposes.

*EMng 0207 — Electro-Mechanical Design (3)

Prereq. EMng 0101, 0122, 0201, 0211, 0203, 0204 or advisor approval. A course to exercise the student's knowledge of electro-mechanical technology. It provides the time and opportunity for students to work on the design, fabrication, assembly and testing of electro-mechanical devices or systems. The purpose is to promote independent study, initiative, and creativity by requiring the student to develop the design with minimal staff supervision.

EMng 0208 — Electro-Mechanical Systems (3)

Prereq. EMng 0101, 0122, 0201, 0204, 0205, 0206, 0211, or advisor approval.

Electro-Mechanical systems are analyzed in detail to show how few are the principles involved in even extremely complex devices. This course embodies all of the principles which have been considered previously in the program. Thorough understanding of the applied principles is the aim of the course.

*EMng 0211 — Electronics Logic Circuits ! (3)

Prereq. EMng 0121 or advisor approval

An introduction to solid state, integrated electronic logic. Practical applications of Boolean algebra, logic gates, binary pulse circuits, number systems, and computer arithmetic.

*EMng 0212 — Electronic Logic Circuits II (3)

Prereq EMng 0211 or advisor approval.

Continuation of Logic Circuits I. Integrated circuit applications which includes combinational and sequential logic. Printed circuits, counters, registers, decoders, signal converters, and microprocessor based microcomputers.

EMERGENCY MEDICAL TECHNICIAN — PARAMEDIC

EMT-A 0101 — EMT Orientation (2)

Introduction to the roles and responsibilities of the EMT. This course includes relations to victims, other medical personnel, and other officials. Emphasis is also on medical terminology.

EMT-A 0102 — Emergency Victim Care (8)

Instruction involves patient problems relating to life threatening and environmental emergency conditions and the application of principles and practice of techniques utilized to cope with same. Includes such problems as cardiopulmonary, bleeding, shock, stroke, fractures, and exposure to hazardous and extreme environmental situations such as exposure to heat, cold, radiation, and electrical injuries. Will also include observation of vital signs and triage. This is the state of Ohio EMT-A course.

*EMT-A 0105 — Advanced EMT-A Course (4)

This course is designed to take the basic skills and knowledge gained in the basic EMT-A course and build on them in the areas of patient assessment, respiratory distress, and shock. At the same time, the student will be introduced to advanced skills such as MAST, esophageal obturator airways and IV therapy.

*EMT-P 0101 — Paramedic Skills I (5)

This course is designed to take the basic skils and knowledge gained in the basic EMT-A course and expand them in the areas of shock and fluid therapy, body systems and patient assessment, and respiratory emergencies. Advanced skills taught in this course include IV therapy, intubation both esophageal and endotracheal, and MAST. This course includes DOT Paramedic Program Modules I, II, III, and VII

Module I Role of EMT

II Human Systems & Pt. Assessment

III Shock & Fluid Therapy

VII Respiratory System

*EMT-P 0102 — Paramedic Skillis II (3)

This course emphasizes gaining access to rescuing and transporting a patient. The recognition and control of certain hazards, such as explosive material, downed electrical wires, toxic gases, and radiation, are included. This course also deals with the use of radio communications equipment, including the transmission of voice communications and EKG transmission. This class also deals with FCC regulations with respect to the use of radio equipment, protocols, and procedures for the transfer of information to the supervising physician. This course includes DOT Paramedic Program Modules XV and XIV.

Module XV Telemetry & Communication
XIV Extrication & Rescue Techniques

*EMT-P 0103 — Paramedic Skills III (11)

This course has an intensive emergency coronary care emphasis. Although much of the emphasis is placed on rhythm interpretaion, this course also deals with pathophysiology, symptomalogy, and emergency treatment of coronary artery disease, MI, angina pectoris, congestive heart failure, and any other cardiac emergency. This course is also designed to introduce the student to the general groups of drugs and the classification of each. Therapeutic effect, indications, contraindications, correct dosage, and side effects of specific drugs used in emergency situations is taught with emphasis placed on those drugs used in cardiac emergencies. This course includes DOT Paramedic Program Modules VI and IV.

Module VI Cardiovascular System

IV General Pharmacology

*EMT-P 0104 — Paramedic Skills IV (10)

This course is designed to take basic skills and knowledge already acquired by the student and build on them in the areas of Medical Emergencies, Obstetric/Gyn Emergencies, Musculoskeletal and Soft Tissue Injuries, and Pediatrics and Neonatal Transport. More emphasis is placed on clinical and on squad experience where the student will be able to inner-relate all he has learned. This course includes DOT Paramedic Program Modules VII, VIII, IX, X, XI, XII, and XIII.

Module VII Central Nervous System

VIII Soft Tissue Injuries

IX Musculoskeletal System

X Medical Emergencies

XI Obstetric/Gyn Emergencies

XII Pediatrics & Neonatal Transport

XIII Emergency Care of Emotionally Disturbed

ENGINEERING

*Engr 0101 — First Aid & Safety (1)

The Standard and Personal Safety American Red Cross first aid course, involving CPR, bleeding control, poisoning treatment, proper methods of transportation, bandaging and splinting. The course involves lectures, practical work and group work. The standard certificate is granted if at least 20 hours of classwork is completed and all requirements are met.

Engr 0209 — Industrial Supervision (3)

Prereq. Second year course only or advisor approval.

Training in the methods of handling management problems, setting policies, personnel problems, etc. To equip the student for possible supervisory positions.

ENGINEERING DRAWING

*EnDr 0100 — Blueprint Reading (2)

This course is designed to provide the student with fundamental knowledge of blueprints and engineering drawings and some skill in the reading and interpretation of drawings. It includes engineering drawings and blueprints; mechanical drawings; lines used on drawings; scales; dimensions; fits and finish marks; surface roughness and lay, threads; rivets; tapers; and examples of blueprint reading.

*EnDr 0101 — Engineering Drawing I (3)

This is a basic course for students who have had little or no experience in engineering drawing. The principal objective is to acquire a basic understanding of the fundamental principles of engineering drawing through actual experience in both free-hand sketching and scaled machine drawings. Subject areas relating to this include orthographic, multiview drawings, geometric constructions, dimensioning practice, sectional views, and auxiliary views.

*EnDr 0102 — Engineering Drawing II (3)

Prereq. EnDr 0101 or advisor approval.

The student is introduced to the techniques and principles employed in structural drawing, including structural-steel, timber construction, quantity takeoff, topographic work with emphasis on contour platting. The course is intended to train the student in the drafting methods used in civil engineering.

^{*}Denotes classes with Lab fees.

*EnDr 0103 — Engineering Drawing III (3)

Prereq. EnDr 0101 and 0102 advisor approval.

The purpose of this course is to enable the student to apply basic principles of engineering drawing, which were learned in prior courses, to solve practical problems encountered in civil engineering. Applied descriptive geometry is used to determine the relationship between points, lines, and surfaces in space. Study areas also include revolutions, vector geometry, and intersections of lines and surfaces.

ENGLISH

Students enrolled in programs leading to the Associate Degree of applied Business or the Associate Degree of Applied Science must take 3 courses (12 credit hours) from the following courses:

English 0111, 0112, 0115, 0140A, 140B, 140C, and 140D.

In addition, Technical Writing and Speech may be required in some technical programs.

Students enrolled in programs leading to the Associate Degree of Arts or the Associate Degree of Individualized Studies must complete 2 courses (8 credit hours) from the following courses:

English 0111, 0112, 1005, 140A, 140B, 140C, and 140D.

In addition, 3 hours of speech from Speech 0101 or Speech 0102 is required for students completing the Associate of Arts Degree or the Associate of Science Degree.

Students with serious deficiencies in reading and composition should take Engl 0100A before taking English 0111, 0112, 0115, 140A, 140B, 140C, and 140D.

Engl 0100A — Fundamental Writing (4)

This is a transitional course for the student who feels he has a basic weakness in reading or writing skills or one who has been away from classroom work for a number of years and recognizes the need for a better foundation for more advanced classroom work. Areas of concentration are (1) reading comprehension, (2) vocabulary development, (3) sentence and paragraph structure.

Engl 0111 — Contemporary Writing Skills I (4)

This course reviews (1) syntax, grammar, and punctuation, (2) studies techniques of good writing style, and (3) introduces the student to coherent writing. The student becomes aware of diffierent demands of purpose, topic, and audience when writing a paper. 4 lec. 1 lab.

Engl 0112 — Contemporary Writing Skills II (4)

This course continues the emphasis on basic skills for writing clearly and effectively. This course assists the student in understanding the rhetorical devices which contribute to good writing. Fundamentals of writing research papers are included. 4 lec 1 lab.

Engl 0115 — Composition and Mass Communication (4)

This course covers the nature and function of all forms of mass communication — newspapers, television, radio, film, and the related topics of advertising and public relations. Basically, the student is instructed how to become a more aware consumer of media. The writing assignments are structured to help the student critically judge various media. 4 lec. 1 lab.

Engl 0121 — Technical Writing (3)

Prereq. Sophomore Standing in a Technical Program.

Technical Writing stresses clarity in technical communications with emphasis on the improvement of writing style and the mastery of exact organization. Types of writing include reports (formal and informal), proposals, resume, and specifications. BECAUSE OF THE TEXTBOOK AND SPECIFIC WRITING ASSIGNMENTS, THIS COURSE IS NOT RECOMMENDED FOR LIBERAL ARTS STUDENTS.

English 0122 — Technical Writing (4)

Prereq. Sophomore Standing in Retail Mid-Management.

Technical Writing emphasizes the written and spoken communication in business field. Business communication skills are stressed including business letters, reports, and business forms. Because of the textbook and specific writing assignments, this course is NOT RECOMMENDED FOR LIBERAL ARTS STUDENTS.

Engl 0140 — Topics in English Language and Literature

Fr. and Soph. Each course focuses on literature, mostly literature of the 20th century considering humanistic problems, themes or issues important today. Each course includes several literary genres (novels, short stories, poems, plays, and essays). The aims are to improve the students' abilities in appreciative and analytical reading, clear thinking, discussion, careful persuasive and imaginative writing. 4 lec. 1 lab.

140-A Literature of Initiation and Experience

4 hrs.

140-B Feminine Images of Literature 140-C Literature of Imagination

4 hrs.

140-D Literature of Black Authors

4 hrs. 4 hrs.

Engl 0201 — Introduction to Fiction (4)

Prereq. 4 hrs. above 100.

This course provides a study of the forms and techniques of the novel, novella, and the short story.

Engl 0202 — Introduction to Poetry (4)

Prereq. 4 hrs. above 100.

The course requires an intensive reading of selected poems from all periods of English and American literature and the study of poetic forms and techniques.

202-A Survey of British Poetry: Part I 4 hrs. 202-B Survey of British Poetry: Part II 4 hrs.

202-C Survey of American Poetry: Part I 4 hrs.

202-D Survey of American Poetry: Part II 4 hrs.

Engi 0203 — Introduction to Drama (4)

Prereq. 4,hrs. above 100.

Modern dramatic forms are analyzed. Selections include translations of world masterpieces as well as English and American drama.

Engl 0204 — Comparative Literature I (4)

Prereq. 4 hrs. above 100.

Selected classical texts as well as modern writings in the classical style are used. The purpose is to recognize and define classical sensibility in western literature.

Engi 0205 — Comparative Literature II (4)

Prereq. 4 hrs. above 100.

This course deals with the aesthetic and philosophical concepts that distinguish the Romantic tradition in western literature. Primarily the works of German, English, and French authors are studied.

Engl 0206 — Comparative Literature III (4)

Prereq. 4 hrs: above 100.

Selected literary works are used which provide background for and examples of modern writing in today's world.

Engl 0225 — Introduction to American Literature (4)

Prereq. 8 hrs. above 100.

Themes and ideas in 19th and 20th centuries of American literature are studied.

Engl 0226 — Introduction to English Literature (4)

Prereq. 8 hrs. above 100.

Themes and ideas in 19th and 20th centuries of English literature are studied.

Engl 0232 — Creative Writing — Poetry (3 hrs.)

Preerq. 8 hrs. above 100.

Creative Writing — Poetry is a course for students interested in learning the techniques of poetic expression. Students will have experiences writing conventional, blank, and free verse forms. (not offered Winter Qtr.)

Engl 0290A — Topics in English (2)

Study of various topics in English otherwise not available to students.

English 0290B — Topics in English (3)

Study of various topics in English otherwise not available to students.

GEOGRAPHY

*Geog 0101 — Physical Geography (5)

Systematic survey of earth-sun relationships, land forms, climate, soils and natural vegetation. 4 lec. 2 labs.

^{*}Denotes classes with Lab fees.

Geog 0121 — Cultural Geography (4)

Systematic survey of settlement, population, and economic activities that are significant to man.

Geog 0125 — World Geography (4)

Systematic regional survey of world geographical conditions. Emphasis on physical, cultural, and economic activities.

Geog 0130 — Economic Geography (4)

Systematic survey of locational economic patterns and their interrelationships.

Geog 0201 — Environment and Man (4)

Geographic survey of environmental changes caused by man's activities. Focus on pollution of air and water and destruction of plant and animal communities.

Geog 0230 — Urban Geography (4)

Study of city function, patterns, past and current problems confronting the city including planning, zoning, housing, and urban renewal.

Geog 0240 — Geography of Eastern United States (3)

Systematic and regional survey of eastern United States. Emphasis on cultural and economic development.

Geog 0241 — Geography of Western United States (3)

Systematic and regional survey of western United States. Emphasis on cultural and economic development.

Geog 0242 — Geography of Ohio (3)

Detailed regional study of physical background, settlement and economic development.

Geog 0243 — Geography of Appalachia (4)

A study of Appalachia from a geographical approach including a detailed examination of physical aspects (climate, soil, vegetation, minerals, and water resources), historical development both past and present, settlement patterns, and economic patterns of the region.

GEOLOGY

*Geoi 0101 -- Physical I (4)

A study of the Earth's basic materials and their formation, Volcanism, Metamorphism, and sedimentation, with the rocks evolving from each of these processes and the natural resource minerals assocaited with each process. 3 lec. 3 labs.

*Geol 0102 — Physical II (4)

Continuation of 101 as a study of the process effecting each of the above including crystallization, mapping, weathering, erosion, transportation of materials, glaciation, and mountain building. 3 lec. 2 labs.

*Geol 0103 - Historical I (4)

Basic study of the Earth's history of formation, Paleo studies of plants, animals and landforms associated with each Geologic age. 3 lec. 2 labs.

*Geol 0201 — Common Rocks, Minerals, and Fossils (4)

Identification of rocks, minerals and fossils can only be encountered on field trips, vacations, and in the immediate area of Scioto County. Not open to students with credit in 101 or 102. 4 lec.

GOVERNMENT

Govt 0100 — Introduction to the American Political System (4)

An elementary course in the basic fundamentals of the American political system at the national, state and local levels. Not recommended for those planning to transfer to another college or to a university.

Govt 0101 — National Government (4)

Constitutional basis and development; political processes, structures, and functions of the national government.

Govt 0102 - National Policy Issues (4)

Study of the administration and policy-making processes of the American national government in selected areas, i.e., foreign policy, welfare, environment, etc.

*Denotes classes with Lab fees.

Govt 0201 — Urban Politics (5)

Prereq. 101 or permission.

Impact of urbanization on structure and functions of municipalities; emphasis on utilization of the policitcal processes to resolve community conflict.

Govt 0203 — Politics in the American States (5)

Prereg. 101 or permission.

Comparative analysis of state political systems; emphasis on structure and process of policy making of the states within the federal context.

Govt 0204 - Introduction to World Politics (4)

Political relations among states; methods and goals of diplomacy; sources of international tensions and conflicts; international organizations and conflict resolution.

Govt 0205 — Politics of Appalachia (4)

Prereq. 101 or permission.

Analysis of political processes in Appalachia; emphasis on the relationship between politics and economic development of the region. Major policies considered: mining and its regualtion; War on Poverty in Appalachia; politics of taxation in the region.

Govt 0290 — Pro Seminar in Practical Politics (4)

(Offered on demand only).

Structure and operations of American political organizations; techniques of political campaigning.

Govt 0299A — Current Political Topics (3)

Prereg. 12-15 hrs. govt. or permission.

Special topics in selected policy areas, to be announced.

Govt 0299B — Current Political Topics (4)

Prereq. 12-15 hrs. govt. or permission.

Special topics in selected policy areas, to be announced.

HEALTH, PHYSICAL EDUCATION, AND RECREATION

HPER 0110 — Physical Education Activities (1)

Basic rules and fundamentals for each activity are stressed. Special emphasis on strategies, team, and individual play. An appreciation of each of the activities is developed to carry over into later life.

> 110-A 1 Archery

110-B **Badminton**

Basketball 110-C

110-D Bowling

Conditioning & Weight Training 110-E Beginning Golf

110-F

110-G Intermediate Golf

Caving 110-H

Karate 110-I

110-J Billiards

110-K Dance

Canoeing 110-L

110-M **Beginning Tennis**

110-N Intermediate Tennis

Volleyball 110-O

Backpacking 110-P

110-Q Cycling

110-R **Rock Climbing**

110-S Softball

Orienteering 110-T

110-U Sking

110-V Swimming

Intermediate Swimming 110-W

110-X Life Saving Jogging

110-Y

110-Z Divina

Advanced Tennis 0111

HPER 0202 — Personal and Community Health (4)

Fundamentals, practices and appreciation of healthful living. Designed to incorporate the principles of scientific health information and promote desirable attitudes and practices for individuals, parents, and teachers.

HPER 0204 - Drugs, Alcohol, and Tobacco (4)

In-depth study of contemporary issues - drugs, alcohol, and tobacco. The nature of the action and motivational forces that influence their use and procedures to provide effective education in the school and the home.

HPER 0227 --- First Aid (4)

The Standard and Personal Safety American Red Cross first aid course, involving CPR, bleeding control, poisoning treatment, proper methods of transportation, bandaging and splinting. The course involves lectures, practical work and group work. The standard certificate is granted if at least 20 hours of classwork are completed and all requirements are met.

HPER 0234 — Laboratory Experience in Physical Education (2)

Prereg. P.E. Majors.

Observation and research in physical education at the elementary and secondary levels.

HPER 0239 — Athletic Officiating - Football (3) (Fall Qtr. Only)

Rules, mechanics, and procedures in officiating. Practice under actual game conditions. State certification upon successful completion of state examination. OHSAA fee for certification and books.

HPER 0240 — Athletic Officiating - Basketball (3) (Wtr. Qtr. Only)

Rules, mechanics, and procedures in officiating. Practice under actual game conditions. State certification upon successful completion of state examination. OHSAA fee for certification and books.

HPER 0241 — Athletic Officiating - Baseball (3) (Sp. Qtr. Only)

Rules, mechanics, and procedures in officiating. Practice under actual game conditions. State certification upon successful completion of state examination. OHSAA fee for certification and books.

HPER 0250 — Recreation Leadership (4)

Lectures, discussion and group dynamics in social recreation. Dynamics involved include games, sports skills, dance, arts and crafts, nature studies, setting up various types of tournaments and practical work in community organizations.

HPER 0261 — Introduction to Physical Education and Health (2)

Prereq. P.E. Majors/Minors.

Lectures, discussion, and visual aids pertaining to scope and content of a professional physical educator.

HPER 0270 — Physical Education for the Elementary Classroom (4)

Lab and lecture experiences for teaching physical education in the elementary schools. Lab experience revolves around methods of presenting movement education in the primary grades and the use of games, self-testing activities, rhythmics and innovative devices in helping to meet general and specific objectives in the intermediate grades. Designed for elementary education majors.

HPER 0281 — Administration of Intramural Athletics (4)

Prereq. Ed. & P.E. Majors/Minors.

Organizing and administering a program of intramural sports of all age levels. Designed especially for elementary and secondary teachers.

HPER 0295 - Independent Study (2)

Prereq. P.E. Majors.

Study, observation and reserach in selected physical education fields. Under the direction of HPER faculty member.

HISTORY

Hist 0111 — American History to 1828 (4)

Exploration and colonization; political, social and economic life of the English colonies to 1763; struggle for independence; constitutional development and the Federalist era; Jeffersonian democracy and the War of 1812; rise of Jackson.

Hist 0112 — American History, 1828-1900 (4)

Jacksonian democracy; territorial expansion; growth of sectionalism; Civil War; reconstruction; impact of expanded Industrial Revolution.

Hist 0113 --- American History Since 1900 (4)

Progressive movement, WW I; Republication prosperity; the Great Depression and the New Deal; WW II and problems of the cold war era; turmoil and reform in the 1960's.

Hist 0201 — Western Civilization from Antiquity to the Renaissance (4)

Birth of civilization in Near East; culture of Greece and Rome; establishment of Christianity; formation and evolution of medieval European society; Renaissance.

Hist 0202 — Western Civilization from the Renaissance to the French Revolution (4)

Renaissance: rise of nation state system: Reformation: commercial and scientific revolutions; absolutism and constitutionalism; Enlightenment and the French Revolution.

Hist 0203 — Western Civilization from 1815 to the Present (4)

Industrial Revolution; spread of liberalism, nationalism and socialism; rise and fall of German bid for power in two world wars; Russian and Chinese revolutions and international communism; collapse of European empires in Africa and Asia; Cold War and the new Europe.

Hist 0290A - Topics in History (2)

Hist 0290B — Topics in History (3) Hist 0290C — Topics in History (4)

This course will provide students and the instructor the opportunity to explore topics of special interest to them. Depending on enrollment, the course may be conducted as a traditional lecture/discussion class, special projects, or directed readings.

HUMANITIES

Humn 0101 — Tradition of Great Books (4)

Classics of ancient Greek, Roman and Hebrew are studied to give an understanding of western European cultural heritage. There is discussion, practice in critical thinking and in reading and writing about these great works.

Humn 0102 — Tradition of Great Books (4)

Classics studied are from the ancient world, the middle ages, the age of reason, and the Romantic period. See 101 for further description.

Humn 0103 - Tradition of Great Books (4)

Classics of the ancient world, the middle ages and writings of more recent times including the present are studied. See 101 for further details.

JOURNALISM

Jour 0105 — Introduction to Mass Communication (4)

All the forms of mass communication including newspapers, magazines, radio-television, book publishing, public relations, advertising and photojournalism. Begins with an analysis of communication process and ends with media career opportunities.

Jour 0231 — News Reporting (4)

Prereq. Typing proficiency, passage of English proficiency test. Methods of gathering and evaluating news and writing typical news stories. Practice work covering assignments and preparing copy.

LINGUISTICS

Ling 0270 — The Nature of Language (5)

Nontechnical investigation into basic nature of human language.

MATHEMATICS

Three Track System in Mathematics for **Engineering Technology Students**

The math sequence for engineering technology students who haven't had high school algebra or with a low ACT score in mathematics should take Math 100A to give him background for the required sequence of Math 0130, 0131, and 0132. A student with high school algebra and geometry and an average ACT score in mathematics should take Math 0130, 0131, and 0132. A student with three or four years of high school mathematics and an ACT score above the 75th percentile of the national norm may have prerequisites for Math 0130, 0131, 0132, or 0201 waived, with the approval of the math department, and start at the level appropriate for him.

Math 100B — Math Appreciation (4) (Offered on demand only)

A course for students who do not need mathematics as a tool. Its purpose is to foster an appreciation of mathematics through involvement in areas of mathematics not ordinarily covered in more rigorous courses. Brain teasers, probability, topology, mathematics in art and history are possible topics, but topics may vary with the instructor. *Check transferability of credit.

Math 0101 — Basic Algebra (4)

Fundamentals of basic algebra. A study of the properties of integers, polynomials, factoring, rational expressions, exponents, radicals, functions and graphs. Solving first degree equations in an unknown, with applications.

Math 0105 — Business Math (4)

Proficiency in the fundamental skills of mathematics as applied to business. Payroll procedures, business and financial reports, presentation of business data and computing of interest for money and banking.

Math 0106 — Business Statistics (4)

Prereq. Math 0101

Basic techniques relating to organization of business and economic data and derivation of calculations therefrom. Analysis and interpretation of the results of statistical summaries, comparisons, etc. Uses of averages, relatives and dispersion; tests relating to significance, probability, sampling, and quality control applications of statistics.

Math 0108 - Allied Health Math I (4)

Exponents and logarithms; use of the slide rule; basic algebra; linear equations in one unknown; graphing linear equations; right triangle trigonometry.

Math 0109 - Allied Health Math II (4)

Prereq. Allied Health Math I.

Ratios and proportions; progressionsl quadratic equations; graphing quadratic functions; use of programmable calculator; basic statistical concepts.

Math 0120 — Elementary Topics in Math I (5)

Prereq. 2 yrs. h.s. math.

Sets; concepts of logic; mathematical systems; systems of numeration; basic ideas about integers, rational numbers and real numbers.

Math 0121 — Elementary Topics in Math II (5)

Prereq. 2 yrs. h.s. math.

Basic algebraic work with equations and inequalities in one and two unknowns; nonmetric and metric geometry; coordinate geometry; introduction to statistics and probability.

Math 0130 - College Algebra I (4)

Prereq. Mastery of at least 1 year of h.s. algebra or Basic Algebra. Integers; Powers of Ten; Scientific Notation; Review of Algebraic Expressions and Operations; Dimensional Analysis; Linear Equations in one and two variables, including graphing; Exponents and Radicals; Right Triangle Trigonometry; Law of Sines and Law of Cosines Applications; Basic Properties of Vectors.

Math 0131 — College Algebra II (4)

Prereq. Mastery of Algebra I or equivalent.

Quadratic Equations, one unknown; Graphing Quadratic Equations, Identification and Approximation of Roots; Exponentials and Logarithms; Binomial Expressions and Progressions; The j-operator Vectors; Review Oblique Triangle Solutions.

Math 0132 — Trigonometry and Analytic Geometry (4)

Prereq. Mastery of Algebra II or h.s. equivalent.

Solving inequalities, linear and quadratic; Graphing Trigonometric Functions; Polar Coordinates; Trigonometric Identifies; Trigonometric Equations; A study of the basic properties of the conic sections.

Math 0150 — Elementary Statistics for the Social and Behavioral Sciences (4)

Prereq. 3 yrs. of h.s. math or Algebra I and either Govt. 101, Psy. 101, or Soc. 101. (Not for mathematic majors).

Treatment and presentation of quantitative social and behavioral data; measures of central tendency; data distribution; association and correlation; sampling, estimations; and simple tests of significance.

*Denotes classes with Lab fees.

Math 0201 — Calculus I (5)

Prerequisites: 4 years of high school math (including trigonometry), or Math 130, Math 131, and Math 132.

Functions and graphs; simple sequences; limits; differentiation and integration of algebraic functions; mean-value theorem; maxima and minima

Math 0202 — Calculus II (5)

Prereq. Calculus I.

Differentiation and integration of logarithmic, exponential, trigonometric and hyperbolic functions; techniques of integration; applications of the definite integral; L'Hospital's rule; improper integrals.

Math 0203 — Calculus III (5)

Prereg. Calculus II.

Sequences and series; Taylor series; vectors; vector calculus; functions of several variables; partial derivatives; gradients; multiple integrals.

MEDICAL LABORATORY

*MLTC 0102 — Clinical Bacteriology (5)

Prereg. Biol 0235A

Diagnostic procedures for identification of medically important bacteria. Emphasis will be placed upon staining, cultural, biochemical and serological characteristics of various pathogenic bacteria.

MLTC 0111 - Medical Laboratory Orientation I (1)

To introduce the student to the hospital, laboratory and various laboratory personnel. Medical terminology associated with the medical laboratory.

MLTC 0112 - Medical Laboratory Orientation II (1)

Prereg, MLT 0111.

Theory and technique in skills such as the use of basic instruments, centrifuges, balances, pipets, preparation of solutions, laboratory safety and laboratory bookkeeping will be emphasized.

*MLTC 0120 — Hematology I (4)

Basic laboratory methods in hematology, including cell counting, hemoglobinometry, cell morphology, etc. Detailed studies of blood cell maturation and development, abnormal level and functions found in peripheral blood and in bone marrow with emphasis on red cells and anemias.

*MLTC 0121 -- Hematology II (4)

Prereq. MLTC 0120.

Continuation of Hematology I with emphasis on white cells, leukemias and special procedures in the study of blood diseases. Detailed study of hemostatic mechanism and hemorrhagic disorders, as well as their laboratory evaluations, are included.

*MLTC 0201 — Urinalysis (3)

Prereq. Biol 0290B and 0291B.

Chemcial and microscopic examination of urine. Theory and applications of various laboratory tests in relation to kidney function. Brief discussion of other important body fluids.

*MLTC 0202 — Immuno-Serology (4)

Prereq. Biol 0235A.

Introduction to basic fundamentals of immunology and application of these fundamentals in ther serological procedures involving antigen-antibody reactions.

*MLTC 0203 — Blood Banking (4)

Prereq. MLTC 0202.

Lectures and laboratory practice in blood banking. Studies involving the principles of blood grouping and inheritance of human blood groups. Emphasis is placed on routine procedures required for pretransfusion testing and identification of human blood group antigens and antibodies. Donor selection, blood collection and processing will be discussed. Hemolytic diseases of the newborn, preparations of blood components, their storage and utilization will also be introduced.

MLTC 0204 — Medical Laboratory Internship (13)

Two quarters of internship providing a practical application of the skills and abilities learned during the previous six quarters of the curriculum. The students are assigned to an accredited hospital laboratory as a trainee.

MLTC 0205 — Special Problems in Medical Laboratory (2)

During the internship period, the student will keep a monthly log indicating scope and degree of activity in the laboratory. A copy of this work will be filed with the college. A problem of special interest to the student, requiring library and/or laboratory study will be selected by the student and the faculty coordinator.

*MLTC 0211 -- Instrumentation (4)

Prereq. MLTC 0112, 0120.

Introduction to instrumentation in the clinical laboratory. Emphasis is placed upon the theory of operation, essential components, mechanism of operation and applications of various labroatory instruments such as spectrophotometer, fluorometer, atomic absorption spectrophotometer, flame esmission photometer, coulometric titrator, automated analyzer, etc.

*MLTC 0212 — Clinical Chemistry I (4)

Prereq. Chemistry 0123.

Principles, practices and techniques of analysis of chemical components in serum, as well as other body fluids are studied. Emphasis is placed on the specific chemical reactions and/or analytical principles, sources of error, quality control, practical application and theoretical aspects of the above procedures as related to normal and abnormal states.

*MLTC 0213 — Clinical Chemistry II (4)

Prereq. MLTC 0212.

Continuation of Clinical Chemistry I, MLTC 0212.

*MLTC 0214 — Parasitology (1)

Prereg. Biol 0235A.

Introduction to medically important human parasites. Emphasis will be placed on host-parasite relationship, mode of transmission, laboratory identification and method of control. Two hours of lecture and laboratory combined.

*MLTC 0215 — Mycology (1)

Prereq. Biol 0235A.

Introduction to medically important fungi, the diseases they cause, and their laboratory diagnosis. Three hours of lecture and laboratory combined

MLTC 0220 — Medical Technology Seminar (1)

Student participation in areas such as ethics and responsibilities in the medical laboratory. Career and professional opportunities in the medical laboratory. Consideration of other allied health occupations, the value of research to laboratory sciences and management problems for the bench-side worker.

MUSIC

Musi 0120 — Introduction to Music Literature (3)

Development of listening skills for understanding elements of musical style in historical perspective and significance of music as a fine art.

Musi 0121 — Introduction to Baroque Music (2)

Prereq. 120 or permission. (Offered on demand only).

Study of selected works from Baroque style period through readings, scores, tapes and recordings.

Musi 0122 — Introduction to Music of the Classical and Romantic Periods (2)

Prereq. 120 or permission. (Offered on demand only).

Study of selected works from the Classical and Romantic style periods through readings, tapes and recordings.

Musi 0123 — Introduction to 20th Century Music (2)

Prereq. 120 or permission.

Study of selected works of 20th Century, both traditional and electronic, through readings, scores, tapes, and recordings.

Musi 0160 — Fundamentals of Music (3)

Principles of notation, meter, major and minor scales, rhythmic and melodic reading, singing, and keyboard.

Musi 0161 - Music for the Classroom Teacher (3)

Prereq. Music Fund, with minimum grade of C.

Methods of teaching elementary music, with emphasis on singing, playing instruments, and rhythmic body movement.

*Denotes classes with Lab fees.

Musi 0170 A,B,C — Class Voice (3 qtrs., 1 cr. hr. per qt.)

Prereq. non-voice majors — Music Reading (must be taken in sequence or by permission).

Flags or come

Basic techniques of voice production; breathing, diction, projection, tone-color, and interpretation.

Musi 0180A — College Chorus (2)

Prereq. Permission (audition) (4 lab hours)

Musi 0180B — College Ensemble (2)

Mixed ensemble, some touring. (Membership by audition) (4 lab hours).

Musi 0181 — College Band (2)

Prereq. Permission (audition) (4 lab hrs.

Musi 0230 - Music - Theater (3)

Participation in selected musical theater projects. Participation may be through production or performance.

Musi 0290A — Topics in Music (2)

Study of various music topics otherwise not available to students: music and the emotions, folk and country music, rock forum, etc.

Musi 0290B - Topics in Music (3)

Study of various music topics otherwise not available to students: music and the emotions, folk and country music, rock forum, etc.

NURSING — ASSOCIATE DEGREE

Only students officially accepted into the program or those with approval of the Program Director may take the courses with the ADNr prefix. All ADNr courses must be taken in sequence.

*ADNr 0101 — Nursing I (8)

Introductory nursing course presenting concepts related to a basic understanding of man and his environment. Emphasis is placed on the nursing process as a means of meeting basic physical and emotional needs common to all age groups through the application of scientific principles including nutrition and pharmacology. Basic technical skills are presented in college and clinical laboratory experiences.

ADNr 0102 - Nursing II (7)

Introduces family-life cycle with emphasis on normal aspects of maternity patient and newborn infant with deviations identified and appropriate adaptations in care presented. Learning opportunities are offered in hospital and family setting and in community facilities.

ADNr 0103 - Nursing III (7)

Principles of nursing care relevant to meeting the needs of children and adults with pathophysiologic conditions of the gastro-intestinal, genitourinary, and reproductive systems are presented. The nursing process and the concepts of human needs, pharmacology, and dietary modifications are included. Learning experiences are provided in college and clinical laboratory with selected experiences offered in public schools.

ADNr 0201 — Nursing IV (7)

Nursing care approaches for pathophysiologic conditions of the nervous and musculoskeletal systems in children and adults are presented. Learning experiences are selected to introduce preventive, rehabilitative, and curative aspects. Opportunities are provided for understanding of physical, mental, emotional, and spiritual components of health and disease. Pharmacology and nutrition is integrated. Clinical experiences are provided in local hospitals and community agencies.

ADNr 0202 — Nursing V (7)

Emphasizes the promotion of mental health and prevention of mental illness. Self-understanding as a basis for understanding others and developing therapeutic nurse-patient relationships are stressed. Clinical experience is provided in a psychiatric setting.

ADNr 0203 — Nursing VI (7)

Care of adults and children with medical-surgical conditions of EENT, skin and endocrine are presented. The nursing process is utilized. Pharmacology and dietary modifications are integrated. Local agencies are used for clinical experiences.

ADNr 0204 — Nursing VII (7)

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Care of adults and children with common medical-surgical conditions of the cardiovascular and respiratory systems are presented. The nursing process is utilized with pharmacology and dietary modifications integrated. Local agencies are used for clinical experiences.

ADNr 0205 - Nursing VIII (14)

Provides learning experiences in basic concepts of nursing management, beginning leadership skills, and nursing trends and issues. Problem solving, decision making, and effective communication techniques are the primary concepts utilized. Clinical experience is provided in a medical-surgical setting.

NURSING — PRACTICAL

LPNr 0101 - Body Structure and Function (4)

This course provides basic study of the structural organization and function of the body. Emphasis is on the interrelation of the systems. Anatomical charts and models are used.

LPNr 0110 — Nutrition (2)

Prereq. LPNr 0101 & 0111.

Included are the sources and contribution of the various nutrients, the importance of nutrition in health, and the effects of cooking on the nutrients. Diet therapy is introduced by way of modifying a normal diet to meet specific dietary needs.

*LPNr 0111 — Practical Nursing I (10)

The course is concerned with the basic nursing principles and skills necessary for efficient patient care. Emphasis is on those needs common to man and on the maintenance of body functions.

LPNr 0112 — Practical Nursing II (6)

Prereg, LPNr 0101 & 0111.

This course is a continuation of Practical Nursing I with additional units included to provide the complete basic fundamentals of skilled practical nursing. Observing, reporting and charting signs and symptoms are included. Nursing care of specific medical-surgical conditions is provided by clinical experience in Mercy Hospital.

LPNr 0113 — Practical Nursing III (8)

Prereq. LPNr 0110, 0112 & 0115.

Medical-surgical nursing is the focus. Emphasis is on learning experiences in assessing, developing care plans and care studies, and caring for short-term and long-term patient situations involving cardiovascular, gynecological, genito-urinary, digestive, and skin and allergy conditions. Related, supervised clinical experience is provided in Mercy Hospital and includes giving medications.

LPNr 0114 — Practical Nursing IV (9)

Prereq. LPNr 0113 & 0116.

This course is a continuation of Practical Nursing III with emphasis on learning experiences in assessing, developing care plans and care studies, and caring for patient situations relating to conditions of the neurological system, eye and ear, endocrine and musculoskeletal disorders. There are additional learning experiences in career opportunities, independent study, and development of judgmental concepts under the supervision of a faculty member. Clinical experience is provided in Mercy Hospital.

LPNr 0115 — Practical Nursing V (6)

Prereg. LPNr 0101 & 0111.

A study of the child in health and illness and the influence of the various factors contributing to growth and development. Experience is obtained at Mercy Hospital and by observation in the Pediatric Clinic, Happy Hearts School and Day Care Center.

LPNr 0116 — Practical Nursing VI (8)

Prereq. LPNr 0110, 0112 & 0115.

This is a course in maternal and newborn nursing. It includes study and care of the mother during pregnancy, the delivery and post-partum; and study and care of the newborn. Concurrent learning experience is provided in Scioto Memorial Hospital and by observation in the Prenatal Clinic.

PHARMACY

Phar 0101 — General Pharmacology (4)

Introduction to the General principles of pharmacology. Calculations, drug classification, and the sites and mechanisms of drug action.

PHILOSOPHY

Phil 0101 — Fundamentals (4)

Survey of basic problems, concepts and methods in philosophy.

Phil 0102 — Introduction to Logic (4)

Use of evidence in establishing reliable conclusions.

Phil 0103 - Moral Philosophy (4)

Discussion of classic and/or modern philosophical views of human values, ideas and morality. Provides an introductory survey of some of the main problems, concepts and results of ethics including selected philosophies of past and present.

PHYSICAL SCIENCE

*PSci 0101 - Physical World (4)

Designed for nonscience majors. Fundamental ideas of meterology and geology. Topics in meterology include atmosphere, winds, clouds, storms and weather. Topics in geology include rocks and minerals, gradation, earthquakes, continental drift and the ocean. 3 lec. 3 labs.

*PSci 0102 — Physical World (4)

Designed for nonscience majors. Fundamental ideas of atomic physics and chemistry. Topics in chemistry include classification of elements, molecules, chemical reactions, solutions and large molecules, including plastics and DNA. 3 lec. 3 labs.

*PSci 0103 — Physical World (4)

Designed for nonscience majors. Fundamental ideas of energy. Topics include heat, light, sound, electricity, solar energy, and nuclear energy. 3 lec. 3 labs.

*PSci 0104 — Physical World (4)

Designed for nonscience majors. Fundamental ideas of astronomy. Topics include the solar system, stars, galaxies, black holes and the history of ideas about the universe. 3 lec. 3 labs.

PSci 0105 — Physical Science (5)

A course designed for students of nursing and other health technologies, stressing the principles of physics and chemistry relevant to the health sciences. Meaningful applications in common experiences also are noted, so that the course should be worthwhile for students in other fields who would like a health-science emphasis. 4 Jec. 3 lab.

PHYSICS

*Phys 0201 — Physics (Mechanics) (4)

Prereq. Math 0130 or Math 0108 or equiv.

Basic measuring systems, methods and conversions and calculations for physics. Properties of solids, liquids, and gases. Statics and motion. Friction. Work, power, and energy. Simple machines. Laboratory and demonstrations related to lecture. 3 lec. 3 labs.

*Phys 0202 — Physics (Electricity) (4)

Prereq. Physics 0201.

An introduction to electrical circuitry with emphasis on the concepts of electrical physics. The nature of magnetism and electrostatics, electrical units. Basic direct-current circuits. Ohm's law, electrical measurement. Sources and effects of electrical current, cells. Electric power and energy. Electromagnetism and electromagnetic induction. Properties of alternating current, simple A-C circuits. Generators and motors. 3 lec. 3 labs.

*Phys 0203 — Physics (Heat, Light, Sound) (4)

Prereq. Physics 0201.

Fundamental properties and basic principles of heat, light, and sound. 3 lec. 3 labs.

PLANT MAINTENANCE

*PMnt 0101 — DC Circuits and Machines (4)

An introduction to electricity. Course content includes resistance, voltage, current, Ohm's Law, series and parallel circuits, magnetism, meters, power, inductance, and capacitance. DC motors and generators are also studied.

*PMnt 0102 — AC Circuits and Machines (4)

Prereq. DC Circuits and Machines.

Basic R-L, R-C transient circuits are initially studied. Alternating current fundamentals, AC circuit analysis, power factor and AC power, and AC machines comprise the major content of the course.

*PMnt 0111 — Industrial Electronics (4)

Prereq. PMnt 0101, 0102.

This course is designed to familiarize the student with industrial electronic circuits and includes bipolar electronic devices, amplifiers, DC power supplies, and integrated circuits.

*PMnt 0201 - Instrumentation Electronics (5)

Prereq. PMnt 0111.

This course is designed to familiarize the student with the electronic equipment and devices found in electronic instrumentation. It usually includes grid-controlled rectifiers, nuclear particles, radiation detectors, radiation detector characteristics, high voltage power supplies, commercial scalers, input and output transducers, recording devices, ultrasonics, mechanical linkages, synchros, positions detectors and controls, carrier current transmission, telemetering and remote control.

PMnt 0211 - Fluid Mechanics I (4)

Prereq. Math 0101, Physics 0201.

This course acquaints the student with the physical properties of gases and liquids and their behavior under various conditions. It includes atmospheric pressure; intensity of pressure; energy of liquids; properties of gases and liquids; various laws and principles governing gases and liquids; and pneumatic and hydraulic machines and devices.

PMnt 0212 — Fluid Mechanics II (4)

Prereq. PMnt 0211.

This is a continuation of Fluid Mechanics I and stresses the application of working formulas such as the Bernouli and momentum equations as they relate to the physical properties of gases and liquids; the flow of fluid in pipes; the measurement of fluid flow; the multiplication of fluid force; and the calculation of pipe sizes, pressures developed, and pump deliveries.

PMnt 0221 — Instrument Fundamentals I (4)

This course is designed to provide the student with a basic knowledge of instruments. It includes an introduction to the field of work; shop and industrial safety practices; instrument cleaning and lubricating; care and use of small hand and power tools; soldering techniques; instrument charts; and types of instruments used in industry.

PMnt 0222 — Instrument Fundamentals II (4)

Prereq. PMnt 0221.

This is a continuation of Instrument Fundamentals I. It includes reading and interpreting instrumentation drawings; fundamentals of measurement and control devices; final control elements; and an introduction to standards and calibration.

PMnt 0223 — Measurement Principles (4)

This course introduces the student to industrial methods of measuring pressure and temperature with various types of gauges and other devices. It includes the basic theory of operation, construction, installation, normal care and handling, operational checks and calibration of gauges, manometers, and nonelectric thermometers.

PMnt 0224 — Industrial Control (4)

Prereq. PMnt 0221, 0211, 0212, 0222.

The student is introduced to basic industrial control circuits and schemes. The course includes pneumatic, hydraulic, electrical, and electronic control.

PLASTICS/CHEMICAL

*PEng 0101 — Introduction to Plastics/Chemicals (3)

Covers a description of the different plastics, beginning with a brief outline of polymer chemistry. Discussion will cover different types of plastic, identification tests, polymerization, molecular growth, and molecular weight. Laboratory experiences in extrusion, injection molding, thermoforming, compression molding, and other fabrication operations. Introduction to test methods.

*PEng 0102 — Machine Tools i (2)

Safety, measuring tools, bench work, drill press, lathe, forge work, shaper, planer, milling machine, grinding machine, hydraulic power transmission, metal band saws, properties and uses of ferrous and non-ferrous alloys, cutting fluids, welding and foundry practices.

*PEng 0103 — Extrusion Molding (3)

Prereq. PEng 0101 or advisor approval.

Techniques of plastics extrusion operations and blow molding: Pipe, sheet, film blowing, extrusion coating, wire and cable covering, thread (monofilaments), bottle blow molding. Laboratory involves operating extrusion equipment and blow molding equipment.

*PEng 0104 — Thermo-Forming (3)

Prereq. PEng 0101 or advisor approval.

Discussion will cover thermo-forming processes and thermo-forming equipment. Thermo-forming will be introduced with special emphasis on vacuum-forming equipment and processes. Characteristics of common plastics used in thermo-forming. Numerous laboratory projects.

*PEng 0105 - Injection Molding (3)

Prereq. PEng 0101 or advisor approval.

Techniques of injection molding processes, compression molding and rotational molding. Mold design. Laboratory operation of injection molding equipment, rotational molding equipment, and compression molding equipment. Design and fabrication of molds.

*PEng 0201 — Plastic Finishing (4)

Prereq. PEng 0101 or advisor approval.

Areas covered include printing, cementing, electroplating, vacuum metalizing, hot stamping, polishing, engraving, welding, sanding, drilling, casting resins and foam processes (polyurethane and polystyrene). Laboratory covers the practical applications of the lecture material

PEng 0202 — Production Control and Planning (4)

Basic concepts of production planning and control methods. Inventory planning, facilities design, capacity considerations. Actual planning and scheduling exercises on an individual basis.

*PEng 0203 — Testing of Plastic Materials (3)

Prereq. Math 0131.

Study is made of the mechanical, electrical, optical, and environmental characteristics of different plastics, impact testing, chemical testing, heat stability testing, hardness testing, and electrical testing. Conducting experiments and writing of technical reports on the property changes of plastics under various conditions. Statistical quality control methods as related to testing.

PEng 0205 — Plant Layout and Materials Handling (3)

Prereq. EnDr 0101.

Principles of plant layout to obtain the most effective utilization of men, materials, and machines, as related to space and cost. Selection and use of modern equipment and methods for handling materials in industrial processes.

*PEng 0206 — Introduction to Chemical Engineering (3)

Prereq. Chem 0121 and Math 0131.

Introduction to the practices of chemical engineering. Stoichiometry, heat and material balances, heat, mass, and momentum transfer. Industrial problems and applications.

*PEng 0207 — Fundamentals of Processing Equipment and Maintenance (2)

Piping diagrams, heat exchangers, reactors, etc., commonly used in the chemical industry. Emphasis on maintenance problems and methods.

*PEng 0209 — Fabrication and Manufacturing of Plastic Products (4)

Prereq. PEng 0101, 0103, 0104, and 0105.

Review of industrial manufacturing methods for plastics products. Survey of the technical literature and projects related to new techniques in manufacturing. Emphasis on fiber-reinforced plastics and products.

PEng 0210 — Properties of Materials (4)

Prereq. Chem 0122 and Math 0131.

Study of various plastics with special emphasis on fitting the proper plastic to the correct end use. Problems will be introduced requiring the practical use of the theory developed in lecture. Properties such as ability to wield, decorate, and form (extrusion, injection, thermoforming) will be discussed.

PSYCHOLOGY

Psyc 0100 — Learning Orientation (4)

The course will employ the use of nemonic and associative techniques to teach students various types of information. (The 4 hours of credit do not apply toward the associate degree, but do apply toward total hours accumulated at the college).

Psyc 0101 — Principles of Psychology (4)

Introduction to psychology. A study of the individual in terms of maturational, learning, thinking, emotional, motivational, sensory and perceptual processes.

Psyc 0105 — Career Planning (4)

An exploratory investigation of career planning.

Psyc 0131 — Human Adjustment (3)

Prereq. Psyc 0101.

A consideration of conflicts and problems of adjustment in modern society.

Psyc 0173 — Human Growth and Development (4)

Prereq. Psyc 0101.

A study of the factors affecting human growth and development through the life cycle.

Psyc 0261 — Industrial Psychology (5)

Prereg. Psyc 0101 and Math 0150.

Applications of psychology in business and industry.

Psyc 0270 - Abnormal Psychology (5)

Behavior disorders, their cause and effects on person, family and society.

Psyc 0275 — Educational Psychology (5)

Prereq. Psyc 0101.

Psychological foundations of education, with emphasis upon learning, transfer, motivation, and evaluation.

Psyc 0290A — Independent Study in Psychology (1)

Psyc 0290B — Independent Study in Psychology (2)

Psyc 0290C — Independent Study in Psychology (3)

Prereq. Permission of instructor is required.

Problems of special interest to the student are investigated under the direction of the psychology staff. This course is open only to second year students who have accumulated a 3.000 average. This course may be repeated once but not to exceed a total of six credit hours.

QUANTITATIVE METHODS

QMet 0200 — Introduction to Business Data Processing (4)

Prereq. Math 0132. (Offered on demand only).

Role of computer in a business environment. Introductory study of equipment, applications, flow charting and FORTRAN program language. Concepts of random variables and probability distributions.

QMet 0201 — Introduction to Probabilities and Statistics (4)

Prereq. 0200. (Offered on demand only).

Theoretical distributions, sampling, estimation (point and interval), hypothesis testing, simple regression and correlation.

*Denotes classes with Lab fees.

RADIOLOGIC (X-RAY)

*RdIT 0101 — Radiologic Technology I (3)

This course is designed to acquaint the new student with the goals, philosophies, and organizations of the radiography program and Radiology Department. Medical ethics, elementary radiation protection, and radiographic positioning of the chest and abdomen are covered. STUDENTS will be scheduled by the college 8 clock hours per week for hospital-based clinical education.

*RdiT 0102 — Radiologic Technology II (2)

This course concentrates on radiographic positioning of the upper and lower extremities. STUDENTS will be scheduled by the college 8 clock hours per week for hospital-based clinical education.

RdIT 0103 — Radiologic Technology III (3)

This course concentrates on radiographic positioning of the spine and skull.

RdIT 0104 — Radiologic Technology IV (3)

This course concentrates on radiographic procedures using contrast media, radiographic practices for surgery, pediatric radiography, and other specialized areas of radiography.

RdIT 0105 — Radiologic Technology V (4)

Discussion of cardiovascular special procedures and necessary equipment for these examinations.

RdIT 0106 — Radiologic Technology VI (4)

Advanced radiographic exposure techniques. Includes information on nuclear medicine, radiation therapy, ultrasound thermography, fluroscopy and image intensification.

RdIT 0107 - Radiologic Technology VII (4)

A series of lectures by guest physicians to acquaint the student with various pathologic conditions of the body and their impact on the radiographic process. Includes student participation in film evaluation and discussion of related journal articles.

RdIT 0108 -- Radiologic Technology VIII (4)

American Registry Examination review and film evaluation.

RdIT 0111 — Radiologic Physics (4)

A study of the fundamental methods of x-ray generation and its relationship to radiation protection in radiology, production and control of high voltage, methods of rectification, with special emphasis on modern x-ray tubes, three-phase generators, and basic x-ray circuits.

RdIT 0200 — Basic Patient Care (3)

The content of this course provides the student with knowledge and basic skills necessary for care of the patient. Includes medical and professional ethics and medical terminology.

*RdIT 0201 — Radiographic Exposure (3)

Lectures on establishing and manipulating radiographic exposure factors and on the proper utilization of accessory devices such as grids, intensifying screens, and beam limitation devices. The concentration is on overall image quality, as well as factors effecting patient exposure.

RdIT 0211 — Clinical Experience I (2)

Supervised sessions emphasizing the practical application of theory. Students will be scheduled a minimum of 16 clock hours each week for hospital-based clinical education.

RdIT 0212 -- Clinical Experience II (2)

Prereq. 0211

Supervised sessions emphasizing the practical application of theory. Students will be scheduled a minimum of 16 clock hours each week for hospital-based clinical education.

RdIT 0213 — Clinical Experience III (6)

Prereq. 0212.

Supervised sessions emphasizing the practical application of theory. Students will be scheduled a minimum of 32 clock hours each week for hospital-based clinical education.

RdiT 0214 — Clinical Experience IV (6)

Prereg. 0213.

Supervised sessions emphasizing the practical application of theory. Students will be scheduled a minimum of 32 clock hours each week for hospital-based clinical education.

RdIT 0215 — Clinical Experience V (4)

Prereq. 0214.

Supervised sessions emphasizing the practical application of theory. Students will be scheduled a minimum of 24 clock hours each week for hospital-based education.

RdiT 0216 — Clinical Experience VI (4)

Prereg. 0215.

Supervised sessions emphasizing the practical application of theory. Students will be scheduled a minimum of 24 clock hours each week for hospital-based clinical education.

*RdIT 0221 — Seminar I (Radiographic Processing) (2)

Includes discussions of film characteristics, artifacts, film storage and handling, processing room design and function, methods, principles and chemistry of processing systems, and silver reclamation.

RdIT 0222 — Seminar II (2)

Introduction to equipment maintenance and quality control in the Radiology Department. Maintenance of automatic processor and monitoring; screen-film contact testing, collimator accuracy, timer accuracy and accuracy of MA and KVp stations.

RdIT 0223 — Seminar III (2) (Principles of Radiobiology and Radiation Protection)

Interactions of radiation with matter, radiation biology, somatic and genetic effects of radiation, units of measurement, and protection principles for patients and operators.

RdIT 0224 — Seminar IV (2)

Student participation in areas such as ethics and responsibilities in the Radiology Department. A problem of special interest requiring library and/or clinical study will be selected by the student and the instructor.

REAL ESTATE COURSES

BaFT 0210 — Real Estate Principles and Practices (4)

A basic course designed as an introduction to real estate economics and administration to develop professional real estate personnel and to promote an opportunity for those not in the real estatate business to obtain basic knowledge about real estate for their own benefit in handling real estate problems.

The course covers the elementary physical, legal, locational and economical characteristics of real estate; real estate markets; and national, regional and local economic influences on real estate values. It also provides a foundation for further study and serves as a preparation for securing a license.

BaFT 0211 — Real Estate Brokerage (4)

A basic course in real estate economics, brokerage and administration, designed for the professional development of real estate personnel and to serve those who are not in the real estate business but desire to learn about real estate for their general knowledge and private business arrangements.

This course covers property ownership and rights, real estate brokerage and construction, marketing, and production, land development and construction of buildings, and effects of marketing and production systems in our economy.

BaFT 0212 — Real Estate Law (4)

Real Estate Law includes all of the areas of law commonly concerned with the typical real estate practitioner and investory-consumer.

Among topics covered in this course is the law of agency as applied to real estate brokers and salesmen, law of fixtures, estates (including leases), conveyancing of real estate, real estate managers, license laws of Ohio, zoning, cooperatives and condominiums.

BaFT 0213 — Real Estate Finance (4)

Real Estate Finance includes information concerning the institutions, methods, instruments and procedures involved in the financing of real estate.

It includes the nature and characteristics of the mortgage loans, government influence on real estate finance, and the nature of the mortgage market. Effects of monetary and fiscal policies on real estate financing are considered.

BaFT 0214 — Real Estate Appraisal (4)

The course in Real Estate Appraisal stresses the methodology of appraising urban real property and the theory underlying appraisal techniques.

The three basic techniques of appraising . . . market comparison, penalized cost of replacement, and income capitalization, are covered in depth.

A term project is assigned to give the student practical experience in applying these techniques.

BaFT 0215 — Special Topics in Real Estate (4)

Special Topics or Seminar in Real Estate (title may vary from institution to institution) includes areas requiring specialized knowledge such as taxation, investment analysis, industrial real estate, commercial real estate, and other types of income producing property. Current issues and problems facing the real estate business are also considered.

This course should be offered to those persons who have previously completed the necessary basic courses.

This course is designed to cover specialized material not covered in the other five courses as well as the current real estate market, legislative activities, and long range planning for the future of real estate.

Recommended prerequisites for this course are: Principles and Practices I, Real Estate Law, Real Estate Finance, Real Estate Appraisal, Real Estate Brokerage.

Real Estate Salesman's Program

Persons wishing to take the Ohio examination for real estate salesmen must first successfully complete Real Estate Principles and Practices and Real Estate Law. Both of these courses are offered at Shawnee State.

RECREATION AND PARKS MANAGEMENT

RAPM 0101 — Introduction to Recreation (3)

A study of the general concepts of recreation including definitions, history, legal basis, current development, and present importance of recreation in our society. Management and Administration of Parks and Recreation organizations is also examined. Laboratory work introduces the students to a number of recreation experiences. 2 lec. 3 lab.

RAPM 0102 — Soils Management (3)

Prereq. or concurrent or permission of instructor: Field Biology. This course is designed to introduce the concepts of soil, soil formation, and soil composition. Forces and types of erosion are discussed in detail with special emphasis placed upon erosion protective and corrective techniques. Land use capability analysis based upon soil data is presented as a technique to forecast potential management problems as they relate to Parks and Recreation. 2 lec. 3 lab.

RAPM 0103 — Hydrology & Water Quality (3)

A detailed study of the hydrologic cycle and its mnay aspects along with the conservation of water and water resource development. Problems and concerns of water quality will be presented including: sources of pollution, water sampling and testing methods, waste water treatment, potable water sources and treatment, and short and long term effects of water pollution. 2 lec. 4 lab.

RAPM 0104 — Taxonomy of Vertebrates (4)

Prereq. or concurrent or permission of instructor: Ecology.

A study of the classification, adaptations, and habitat re-

A study of the classification, adaptations, and habitat requirements of the higher animals with particular emphasis on Ohio species. Field identification of mammals, birds, reptiles, amphibians, and fish will be emphasized in the lab.

RAPM 0121 — Parks and Recreation Internship (6)

Eleven weeks' supervised work experience. Supervisory visits by instructor. Weekly seminars for critique of experience. Weekly evaluation reports.

RAPM 0201 — Outdoor Recreation (4)

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Prereq. or concurrent or permission of instructor: Introduction to Recreation.

This course presents several aspects of outdoor recreation. Included in lecture material are concepts of feasibility, interpretation, and personal recreation equipment use and care. Laboratory exercises introduce the student and improve his skills, in each of the areas of study. 2 lec. 6 lab.

RAPM 0202 — Forest Management and Recreation (4)

This two part course first investigates the development and the existing practice of modern forestry in the United States. Basic management practices are discussed with laboratory exercises designed to improve forest management skills. The second aspect of this course is to identify typical forest recreation facilities and discuss their operational elements. 3 lec. 3 lab.

RAPM 0203 — Maintenance of Recreation Areas (4)

Maintenance of recreation areas including park grounds, water areas, turf, trees, buildings, vehicles, equipment, and paved areas. Additional emphasis on employee safety and the development of a maintenance plan. 3 lec. 6 lab.

RAPM 0204 — Fiscal Operations (3)

Efficient and effective money management is critically important to the successful operation of park and recreation areas. This course is designed to initiate the student to sound fiscal operation. Sources of funding, including grant applications, are fully discussed. Other areas of detailed study include budget preparation, budget implementation, and evaluation and accountability. Concessions and other sales elements are investigated. 2 lec. 4 lab.

RAPM 0205 — Park Layout and Design (3)

This course combines aspects of several other areas of study and investigates the interrelationships between sound natural resource management techniques and facility attractivity and useability. Students are presented with problems of individual elements of park design. As each of these situations are resolved, the solutions form workable units in an overall park master plan. The final phase of this course is to combine those elements into a complete park layout. 1 lec. 6 lab.

RAPM 0206 — Seminar (2)

This course has been designed as flexible as possible to arouse individual interest in current events that affect the practice of N.R. management. An open-ended discussion of several issues encourages independent thought and investigation. 2 lec.

RAPM 0207 — Orientation to Employment (1)

Prereq. second year standing.

Job application, resume writing, interviewing, and contact follow-up are techniques for securing employment that this course presents. Other elements presented include letter writing, job hunting strategies, and potential employers. 1 lec. 1 lab.

RAPM 0208 — Water Recreation (3)

Prereq. or concurrent or permission of Instructor: Introduction of Recreation & Outdoor Recreation.

Study of water-related recreational facilities such as marinas, swimming areas, and fishing. Consideration will be given to boating laws, operation, and safety and all forms of water recreation. 2 lec. 4 lab.

RAPM 0209 — Parks Protection (2)

Prereq. or concurrent or permission of Instructor: Maintenance of Recreation Areas and second year standing.

Crime is not isolated to ghetto environments but rather is common in all settings. Park areas seem especially prone to anti-social behavior and, as such, each student must be fully aware of the effects of crime in and around these park areas. This course rests heavily upon outside expertise in the areas of: alcohol and drug abuse, fire protection and control, jurisdictional constraints placed upon park enforcement officers, investigative procedures, game protection, vandalism, and legal liabilities. Other areas of discussion include philosophies and needs for protection, and designing against crime. 1 lec. 4 lab.

RAPM 0210 — Wildlife Management (3)

Prereq. or concurrent: Taxonomy of Vertebrates.

A study of the ecological principles of the management of wild animals, both game and non-game species. The economic importance of wildlife and the role of various wildlife agencies will also be considered. 2 lec. 4 lab.

RESPIRATORY THERAPY

RpTT 0101 — Introduction to Respiratory Therapy (1)

This course consists of (1) a series of lectures designed to introduce the student to the profession of respiratory therapy, the structure and administration of a respiratory therapy department, and to basic techniques of patient care; (2) a programmed learning experience designed to prepare the student in the proper utilization of medical terminology.

*RpTT 0102 — Fundamentals of Respiratory Care (5)

This course consists of a series of lectures and laboratory experiences designed to introduce the student to the basic equipment utilized by the respiratory therapy technician and the clinical application of that equipment. It will include a discussion of the physical and chemical properties of medical gases, as well as their manufacture, storage, and safe handling. Additional emphasis will be placed on the indications, contraindications, hazards, and goal assessment for oxygen therapy, humidity and aerosol administration, bronchial hygiene and pulmonary drainage, I.P.P.B., sustained maximal inspiratory therapy, physical assessment, and infection control.

RpTT 0110 — Clinical Practice I (1)

This is an introduction to the clinical setting for the respiratory therapy technician. Orientation to the hospital environment including policies and procedures of the respiratory therapy department, the role of departmental personnel within their institution's function, charting and record keeping will be emphasized.

RpTT 0111 — Clinical Practice II (6)

Instruction in and practical application of procedures and equipment in the areas of medical gas systems, oxygen therapy, humidity and bland aerosol therapy, sustained maximal inspiratory maneuvers, physical assessment, infection control, and prophylactic and bland I.P.P.B.

RpTT 0112 — Clinical Practice III (6)

Instruction in and practical application of procedures and equipment in the areas of medicinal aerosol therapy, therapeutic I.P.P.B., bronchial hygiene and pulmonary drainage, suctioning and sputum collection, care of the artificial airway, and continuous mechanical ventilation.

RpTT 0113 — Clinical Practice IV (8)

Instruction in and practical application of procedures and equipment in the areas of arterial sampling techniques, pulmonary function testing, EKG testing, pediatric and neonatal respiratory care, and advanced techniques, procedures, and monitoring of continuous mechanical ventilation.

RpTT 0121 — Cardiopulmonary Physiology (5)

This course consists of a series of lectures on the anatomical and physiological concepts and principles related to normal and abnormal lung function. Topics discussed will include a review of respiratory and cardiac anatomy and physiology, the process of ventilation, the mechanics of breathing, gas exchange, ventilation-perfusion relationships, gas transport, acid-base balance, and the control of ventilation.

RpTT 0201 — Respiratory Pathophysiology (5)

This course consists of a series of lectures focused on the most commonly encountered cardiopulmonary diseases. Each disease entity will be explored as to its etiology, pathophysiology, progression, treatment, and prognosis. The course also includes discussions of the manifestations of pulmonary diseases and the clinical, radiologic, and laboratory assessments utilized in the diagnosis and treatment of cardiopulmonary diseases.

RpTT 0202 — Pharmacology for Respiratory Therapy (4)

A study of the general principles of pharmacology including drug types, dispensing, dosage, effects including contraindications and regulations. Drug groups related to respiratory therapy will be emphasized to include bronchodilators, wetting agents, detergents, mucolytics, proteolytics, antibiotics, and steroids.

*RpTT 0211 — Respiratory Therapy Procedures I (3)

This course consists of a series of lectures and laboratory experiences focused on the role of respiratory therapy in the clinical management of ventilatory insufficiency and respiratory failure in the adult patient. The discussion will attempt to follow the course of a patient from initial onset of decompensation, through mechanical ventilation and weaning, and finally to discontinuation of mechanical ventilation and extubation. The laboratory experiences are designed to explore the most commonly used procedures and equipment associated with continuous mechanical ventilation of the adult patient.

*RpTT 0212 - Respiratory Therapy Procedures II (4)

This course consists of a series of lectures and laboratory experiences focused on the theoretical considerations, procedures performed, and equipment utilized by the respiratory therapy technician in the content areas of pulmonary function testing, pulmonary rehabilitation, and neonatal mechanical ventilation.

RpTT 0211A — Respiratory Critical Care (2)

This course consists of a series of lectures focused on advanced concepts involved with the care of an adult patient receiving continuous mechanical ventilation. Specific emphasis will be placed on the areas of physiologic monitoring, analysis of cardiac arrhythmias, cardiac assist and monitoring devices, and the pathophysiologic interrelations of multiple organ failure and acute respiratory failure.

RpTT 0213 — Respiratory Procedures III (3)

This course consists of a series of lectures and laboratory experiences designed to review the theoretical considerations, procedures performed, and equipment utilized by the respiratory therapy practitioner. It is the intent of this course to review the principles and practice of Respiratory Care so as to prepare the student for the transition from technician to therapist.

RpTT 0214 — Clinical Practice V (2)

This course will consist of a series of clinical lab lectures, practice sessions, and hospital experience modules. The clinical laboratory skills in assessing the patient with pulmonary disease, evaluating the efficacy of therapy, and training the student to function as a bedside physician assistant.

RpTT 0215 — Respiratory Procedures IV (3)

This course consists of a series of lectures and laboratory experiences designed to explore the theoretical considerations, procedures performed, and equipment utilized in the areas of pediatric, neonatal, and perinatal respiratory care. Emphasis will be placed on the pathophysiology and treatment of those disorders most commonly encountered.

RpTT 0216 — Clinical Practice VI (2)

This course will consist of a series of clinical lab lectures, practice sessions, and hospital experience modules. The clinical laboratory lectures and practice sessions are designed to promote the students' skills in the area of advanced respiratory care with emphasis on the care and transport of the high risk neonate.

RpTT 0217 — Advanced Cardiopulmonary and Renal Physiology (4)

This is an advanced level course designed to provide the student with an in-depth analysis of the pulmonary, cardiovascular, and renal anatomy and physiology. These concepts will be related to the principles and practice of respiratory care with emphasis on the areas of respiratory pathophysiology.

RpTT 0218 — Respiratory Therapy Departmental Organization and Administration (3)

This is an introductory level course in the organization and management of a respiratory care department. Emphasis is placed on the principles and practice of personnel management as would be applicable to all levels of management.

*Denotes classes with Lab fees.

RpTT 0219 — Respiratory Procedures V (3)

This course consists of a series of lectures and laboratory experiences designed to explore the theoretical considerations, procedures performed, and equipment utilized in the area of pulmonary function testing. Emphasis will be placed on advanced testing procedures and their interpretation and significance.

RpTT 0220 — Clinical Practice VII (2)

This course will consist of a series of clinical practice sessions and hospital experience modules designed to sharpen the students' skills in the area of pulmonary function studies. Emphasis will be placed on the performance of advanced procedures, their interpretation, and their significance.

RpTT 0221 — Topics in Clinical Medicine (3)

This course is (1) a series of lectures devoted to the clinical application of the theoretical considerations, procedures performed, and equipment utilized by the respiratory therapist in the topic area of respiratory critical care and (2) an analysis of current literature pertaining to the field of respiratory care.

RpTT 0222 — Ethical and Legal Considerations (2)

This course is a series of lectures and discussions designed to explore the ethical considerations of the practice of respiratory care and the associated legal implications, responsibilities, and processes.

RpTT 0223 — Therapy Seminar (2)

This is an independent research study into any specialty topic area of interest to the student. The student has the responsibility of (1) locating a sponsor proficient in the specialty area willing to meet with the student; (2) submitting a list of proposed behavioral objectives to the clinical coordinating and program director; (3) submitting three written reports of the students' progress and a final thesis summarizing what the student has learned, and (4) submission of weekly reports signed by the sponsor attesting to the students' attendance for in-house training at least two hours per week.

RETAIL MARKETING MANAGEMENT

RMMT 0101 — Introduction to Business (3)

A survey course of the basic functions of American business, with an emphasis upon the responsibility of businesses as a vital segment of society. The course introduces the American economic system and the role of profits as the motivating force behind U.S. business activity. Case problems and supplementary readings provide exposure to divergent opinion about the subject of business.

RMMT 0102 — Marketing (4)

A study of marketing fundamentals, consumption and consumer behavior, retailing and wholesaling structures; and the functions performed in marketing, marketing policies and a eritical appraisal of the field of marketing.

RMMT 0103 — Introduction to Retailing (4)

Principles and methods of retail management, including organization, policy making, location, operation, selling services, records, inventory, expense control, insurance and the coordination of a store.

RMMT 0104 — Salesmanship (3)

A course structured to acquaint the student with the basic concepts of personal selling at both the industrial and retail level including preparation for selling, sales processes, and an introduction to sales management. Emphasis on retail selling. Students are made aware of the wide variety of careers open to them in retail selling.

RMMT 0223 — Retail Buying (4)

Prereq. Marketing or permission of instructor.

This course will provide a basic understanding of the retail buyer's responsibilities and functions and create an awareness of the complexity of the buyer's job. In addition, the course will provide the student with actual opportunity to acquire some of the basic skills that are used by the retail buyer in determining demand, purchasing, choosing sources and negotiating, and pricing.

RMMT 0225 — Retail Case Studies (3)

To give the student an opportunity to report and discuss retail problems in a group situation. Problems discussed are concerned with areas of retail management, planning, personnel, store layout, inventory control, customer services and salesmanship.

RMMT 0227 — Credit and Collection (4)

The organization of this course grants the student an appreciation of the economic and social implications of credit and exposes him to the specific type of credit. It presents the vital principles of credit management as well as the everyday experience of an actual credit manager.

*RMMT 0233 - Sales Promotion (4)

Prereq. Marketing or permission.

A course designed to provide the student with a basic background, which will enable him to effectively create, transmit and manage product information and messages from the seller to the buyer, resulting in the desired response by the buyer. Emphasis is placed on defining the potential consumer and his behavior, selecting the proper promotional methods, and managing the promotional program.

*RMMT 0235 — Advertising (3)

Prereq. Marketing or permission of instructor.

A study of the principles of advertising stressing the history and development of advertising; its relation to the marketing effort of the firm; its relation to consumers and society in general; the major groups of media used by the advertiser; the creation; planning and management of advertising.

RMMT 0236 — Special Topics in Retailing (2)

An independent research study of a particular area of the retailing industry which interests the student. Prerequisite: Sophomore standing, permission of full-time retail instructor and Introduction to Retailing.

RMMT 0240 — Retail Accounting (3)

An analysis of accounting and mathematical problems facing the retail manager, including financial statement ratios, department and branch accounting, inventory evaluation methods, turnover ratios and comparisons, pricing policies, profit planning and control, and calculation of returns on investment based on alternate investment decisions.

RMMT 0241 — Labor Relations (4)

This course is concerned with collective bargaining, contract or labor agreements, workmen's compensation laws, apprentice training, and jurisdictional disputes.

RMMT 0242 — Industrial Relations (4)

The methods of employer-employee relations, emphasizing the position of the employer; personnel policies and practices, compliances with law and regulations with labor unions.

RMMT 0243 — Human Relations (4)

This course deals with the area of human relations in business and industry — the motivation of individuals, interpersonal relationships, and the morale of individuals and groups.

RMMT 0301 — Principles of Management (4)

An introductory course into management concepts, organization and principles with a detailed analysis of the management functions of planning, organizing, staffing, directing and controlling. Communications, decision making and motivation are emphasized as intrical concepts in performing the management functions.

RMMT 0302 — Personnel Management (3)

The philosophy, principles, and methods of personnel management; organizational structure, areas of responsibility and authority, policy making, procurement and placement, training, evaluation, wage and salary administration and benefit programs.

RMMT 0310 — Retail Internship (5)

Prereq. A minimum of 13 hours in retailing selected from the following: Marketing, Introduction to Retailing, Salesmanship or Retail Accounting plus 36 approved credit hours. Permission of the Retail Marketing Coordinator may be granted in special situations. A minimum 2.0 overall average is required.

The intern program combines study and work experience to give the student self-direction in his career preparation and to familiarize the student with retail management as it actually works. This process of learning through the interaction of study and work experience benefits the student by enhancing his personal development, vocational or professional preparation, and his general education.

*Denotes classes with Lab fees.

RMMT 0311 — Special Problems in Retailing (2)

The student applies his practical knowledge of retailing to specific areas of his job. Special problems confronted by the student on the job are prepared in report form to be submitted to his supervisor-coordinator. A special project is required to be completed during his internship quarter. Through this project, the student is expected to become familiar with company methods, policies and procedures.

SECRETARIAL

*ExST 0101 — Typing ! (3)

Typing I is a study of the touch system of typewriting with emphasis on development of speed and accuracy and the production of simple problems such as: personal notes, letters, outlines, and short tabulated reports.

*ExST 0102 -- Typing II (3)

Prerea, Typina I.

Typing II is a continuation of Typing I with students applying basic typing techniques to increasingly more difficult problems.

*ExST 0103 — Typing III (3)

Prereq. Typing I & II

Typing III is a continuation of Typing II with emphasis on developing the student's ability to produce mailable copy of technical reports, drafts, business correspondence, etc. All students will study the uses of the IBM Memory typewriter, the IBM Electronic typewriter, and the IBM Composer.

ExST 0104 — Typing IV (3)

Prereq. Typing I, II, and III.

Typing IV consists of a production typing practice set that is designed to help the student achieve job competency. Emphasis is placed on production and accuracy. Students will also be given further instruction on the IBM Composer, the IBM Memory typewriter and the IBM Electronic typewriter.

ExST 0105 — Typing V (3)

Prereq. Typing I, II, III, and IV.

Typing V consists of a legal practice set and a medical practice set to be completed under the direction of the instructor.

ExST 0111 - Shorthand I (3)

The student is taught to read and write Gregg shorthand and develop the nonshorthand elements of transcription which include vocabulary development, spelling, punctuation, and grammar.

ExST 0112 — Shorthand II (3)

Prereq. Shorthand I.

A continuation of Shorthand I designed to perfect shorthand theory, phonetics, word families, brief forms and phrases, and penmanship. Students are encouraged to raise speed and accuracy levels.

ExST 0113 — Shorthand III (3)

Prereq. Shorthand I and II.

A continuation of Shorthand II with greater emphasis on building speed and accuracy.

ExST 0214 — Shorthand IV (3)

Prereg. Shorthand I, II, and III.

A systematic development of a business vocabulary to prepare the student to work at high speeds in shorthand. The use of shortcuts and high frequency brief forms and derivatives will be emphasized.

ExST 0215 — Shorthand V (3)

Prereq. Shorthand I, II, III, and IV.

A continuing development of high speed in shorthand through the use of shortcuts and high frequency brief forms and derivatives. Students will be given a wide variety of dictation with emphasis on individual speed development.

ExST 0216 - Shorthand VI (1)

Prereq. Shorthand I, II, III, IV, and V.

This course is designed to develop skill in writing and transcribing vocabulary commonly used in the medical or legal field.

*ExST 0120 --- Business Machines I (3)

A study of various types of modern office calculators.

*ExST 0121 — Business Machines II (sec. majors only (3)

Prereq. Typing I. II. and III.

A study of office duplicators and copiers.

*ExST 0221 — Dictation and Transcription I (3)

Prereq. Typing I, II and III.

A course designed to develop the student's ability to use transcription equipment for mailable copy.

*ExST 0222 — Dictation and Transcription II (3)

Prereq. Dictation and Transcription I, Typing I, II and III, Shorthand I, II and III.

A course emphasizing practice in taking dictation and transcribing at various rates of speed for mailable copy. Office style dictation procedures will be emphasized. The general secretarial major will complete advanced machine transcription projects.

ExST 0231 — Records Management (3)

A comprehensive course dealing with the creation, distribution, retention, utilization, storage, retrieval, protection, preservation, and final disposition of all types of records within an organization.

*ExST 0241 — Secretarial Practices I (3)

Prereq. Typing I, II and III, Shorthand I, II and III, or three basic business electives for general majors, Records Management, Business Machines I, Dictation and Transcription I.

A course designed to emphasize the responsibilities and opportunities of a secretarial position, as well as the personal qualities necessary for secretarial success. Opportunity is provided for the students to use "word processing" skills, transmittal services, and records management in realistic office situations.

*ExST 0242 — Secretarial Practices II (3)

Prereq. Secretarial Practices I.

The class encompasses a variety of secretarial duties such as assistance with travel arrangements, planning meetings, the presentation of business data, and handling financial and legal responsibilities. The variety of job opportunities open to the college-trained secretary and the essentials for achieving professional status are discussed. Each of these topics is placed in a realistic office simulation so the student may learn by doing.

*ExST 0243 — Secretarial Practices III (5)

Prereq. All classes in major that are required for graduation. General secretarial majors must have completed all basic business electives required in place of shorthand.

This class is a block program completed in the classroom. The students will participate in a medical, legal, or business/industrial office simulation project.

MdST 0111 — Medical Shorthand I (3)

Designed to give advanced shorthand students practice in note taking and transcription of medical reports, diagnoses, case histories, and correspondence.

MdST 0112 — Medical Shorthand II (3)

Prereq. Medical Shorthand I.

A continuation of Medical Shorthand I. This course is designed to develop skill in writing and transcribing shorthand notes containing words and phrases commonly used in the language of medicines.

*MdST 0221 — Medical Dictation and Transcription I (3)

Prereq. Typing I, II, & III and Shorthand I, II, & III.

Emphasis is on the development of mailable transcription from a transcribing machine, medical vocabulary building, and a review of punctuation and spelling.

*MdST 0222 — Medical Dictation and Transcription II (4)

Continuation of MdST 0221. Emphasis is on mailable transcription to meet medical office standards.

*Denotes classes with Lab fees.

MdST 0223 — Medical Terminology I (3)

Prereg. Shorthand I, II & III.

Develops skill in writing and transcribing words and phrases occurring in the spoken and written language of medicine.

MdST 0224 — Medical Terminology II (3)

Continuation of MdST 0223.

MdST 0241 — Medical Secretarial Practices I (3)

Prereq. Typing I, II & III, Shorthand I, II, & III, Records Management, Business Machines I & II, Dictation and Transcription I.

An introduction to the general responsibilities required by a medical secretary, including the preparation of medical documents and development of a competent medical vocabulary.

MdST 0242 — Medical Secretarial Practices II (3)

Prereq. Medical Secretarial Practices I.

A continuation of MdST 0241. In addition, a general background in basic diagnostic tests, techniques, and assisting with patients is provided.

LgST 0111 - Legal Shorthand I (3)

Designed to give practice in note taking and transcription to advanced shorthand students. Preparation of legal correspondence, pleadings, testimonies and depositions.

LgST 0112 — Legal Shorthand II (3)

Prereq. Legal Shorthand I.

This course is designed to develop skill in writing and transcribing shorthand notes containing words and phrases commonly recurring in the spoken and written language of law.

*LgST 0221 — Legal Dictation and Transcription I (3)

Prereq. Typing I, II, & III and Shorthand I, II, & III.

Emphasis is on the development of mailable transcription from a transcribing machine, legal vocabulary building and a review of punctuation.

*LgST 0222 — Legal Dictation and Transcription II (4)

Continuation of LgST 0221. Emphasis is on mailable transcription to meet legal office standards.

LgST 0223 — Legal Terminology & Judicial Procedures I (3)

Prereq. Shorthand I, II & III.

A study of customary terms and practices in law offices, legal departments of business organizations, and courts.

LgST 0224 — Legal Terminology & Judicial Procedures II (3)

Continuation of LgST 0223.

LgST 0241 — Legal Secretarial Prctices I (3)

Prereq. Typing I, II & III, Shorthand I, II & III, Records Management, Business Machines I & II, Dictation and Transcription I.

An introduction to the general responsibilities required by a legal secretary, including the preparation of legal documents and the development of a competent legal vocabulary.

SOCIAL SCIENCE

SoSc 0210 — Introduction to Urban Studies (4)

No prereq. required, but Govt 201 is recommended.

Current information from various disciplines in the social sciences will be integrated to explain the phenomenon or urban growth and to examine problems in selected areas of interest, i.e., education, housing, transportation, land use, etc.

SoSc 0299 — Interdisciplinary Special Topics in the Social Sciences (4)

Course will draw upon the various disciplines in the social sciences.

SOCIAL SERVICE

SSTc 0102 — Introduction to Social Services (3)

This course will present an overview of the social work profession to the student. Special areas of concern will include social work philosophy and values, types of practitioners, as well as the organization and purpose of social work agencies.

SSTc 0103 — Contemporary Social Problems (3)

Prereq. Soci 0101.

Social issues in contemporary America. Society responses to structural defects in society.

SSTc 0104 -- Personal Growth and Development (2)

A study of how to work with patients/clients, professional people, personal hygiene and office attire, refinement of oral communications with emphasis on conference forms, leadership, and techniques.

SSTc 0105 — Marriage and the Family (3)

Prereg. Soci 0101.

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A study of the American family system; domestic relations law, courtship, marriage processes, factors associated with successful and unsuccessful marriages. Visitation with local ministers to discuss problems encountered.

SSTc 0106 - Rehabilitation (2)

A study of the rehabilitation process. A study of the laws and legislation influencing the rehabilitation process. Visitations and conferences with personnel involved in rehabilitation.

SSTc 0107 — Sociology of Education (4)

An examination of education as a social institution. Social factors influencing learning, teaching and school programs. Social trends and problems in education.

SSTc 0111-0115 — Social Services Internship I-V (2)

Prereq. SSTc 0102.

This internship program involves the student in applying his classroom studies in the field. Group of 4 to 6 students are assigned to work with counselors, caseworkers, etc. in social work areas.

SSTc 0201 — Public and Child Welfare (3)

Contemporary organization, functions, and needs at local, state, and national levels, including social security system. Field experience with caseworkers. Visitation to Welfare Office, Social Security Administration, Vocational Rehabilitation Centers, etc.

SSTc 0203 — Gerontology (3)

A study of the life style and problems encountered by the aged.

SSTc 0204 — Social Group Work (2)

Orientation to the process and techniques of social group work, the agencies using this method, and trends in the field.

SSTc 0205 - Historic Background to Urban Society (3)

A survey of the evolution of urban society, emphasizing the development of change in American culture patterns. Field trips to urban area, and visitations to homes in different geographic regions.

SSTc 0207 - U.S. Minority Groups (3)

Examination of minoirty groups, causes and consequences of prejudice and discrimination.

SSTc 0208 — The Community and Community Resources (3)

The American community as a social system. Emphasis on ecology, stratification, and social power.

SSTc 0209 — Interviewing and Counseling (2)

A study of interviewing and counseling techniques, in general, and their specific applications to social services. Some special emphasis to be considered are: improving clients' self-image, stimulating motivation, increasing one's ability to communicate, and helping clients to develop problem solving techniques.

SSTc 0210 — Medical Sociology (3)

Sociological concepts of illness and health; structure, role, rank, and value of health personnel and patients.

SSTc 0211 — Social Problems and Police Relations (3)

Use of sociological perspective to analyze major social problems including causes, treatment, and prevention. Consideration of the ways the community and police allocate its resources to deal with problems. Analysis includes such problems as race relations, poverty, crime, delinquency, population, and work.

SSTc 0212 — Penology and Corrections (4)

Societal reactions to offenders against law, viewed historically and cross-culturally.

*Denotes classes with Lab fees.

SOCIAL WORK

SoWr 0101 — Introduction to Social Welfare and Social Work (3)

Overview of field of social welfare with equal emphasis on fundamental concepts and services in social welfare and current and emerging tasks in profession of social work.

SOCIOLOGY

Soci 0101 — Principles of Sociology (4)

Nature of human society and factors affecting its development. Fundamental concepts of sociology: culture, collective behavior, personality, groups, institutions

Soci 0201 — Current Social Problems (4)

Prereq. Soci 0101.

An examination of the ways in which society comes to define certain conditions as social problems, a descriptive survey of the nature and distribution of contemporary American social problems, and a discussion of the various theoretical orientations used in classifying social problems. Problems under study would include crime and juvenile delinquency, alcoholism and drug abuse, poverty, mental disorder, family disintegration, and problems arising out of discrimination against ethnic minorities and women in American culture.

Soci 0202 — Introduction to Family Sociology (4)

Prereq. Soci 0101.

Cross-cultural analysis of family systems. Primary emphasis on American family: courtship, marriage and family relationships.

Soci 0203 -- introduction to Social Psychology (4)

Prereg. Soci 0101.

Patterning of conduct through social interaction; functional analysis of individual-group relationships in various organizational contexts; current theory and research in the field.

Soci 0205 — Sociology of Appalachia (4)

Prereq. Soci 0101.

Intensive study of Appalachia from sociological perspective. Emphasis on population of Appalachia (number and distribution of inhabitants, characteristics of population, vital processes and migration), "culture of rural poverty," acceptance of innovation and social change in Appalachia, major social institutions in the area and community power structure in Appalachia.

Soci 0210 - Women in Society (4)

A study of women's role in society from a historical and sociological perspective.

SPANISH

Span 0111 — Elementary Spanish (4)

Development of comprehension, speaking and reading skills. Basic grammar. Lab required. Beginning course of 3-qtr. 1st-yr. sequence.

Span 0112 — Elementary Spanish (4)

Prereq. 0111.

Continuation of 0111.

Span 0113 — Elementary Spanish (4)

Prereq. 0112.

Continuation of 0112.

Span 0211 — Intermediate Spanish I (4)

Prereq. Span 0113 or instructor's approval.

Reviews grammar. Offers selected readings in Hispanic literature. Oral facility is emphasized. 3 lec. 2 labs.

Span 0212 - Intermediate Spanish II (4)

Prereq. Span 0211 or instructor's approval.

Emphasizes oral and written expression. Continues intensive review of grammar. Selected readings in Hispanic literature are stressed. 3 lec. 2 labs.

Span 0213 — Intermediate Spanish III (4)

Prereq. Span 0212 or instructor's approval.

Emphasizes the building of more advanced vocabulary and sentence structure through more difficult prose. Increasing emphasis is placed on conversation and free composition. 3 lec. 2 labs.

SPEECH

Spch 0101 - Speech I (3)

Public speaking employing principles of effective oral communication. Practice in presenting informative and persuasive speeches with emphasis on the communicative process.

Spch 0102 - Speech II (3)

Analysis of role of oral communication in human relationships with consideration of a variety of interpersonal contexts; performance directed toward concentrated study of conference types.

Spch 0105 — Introduction to Mass Communication (4)

All forms of mass communication including newspapers, magazines, radio-television, book publishing, public relations, advertising and photojournalism. Begins with an analysis of communication process and ends with media career opportunities.

Spch 0125 — Parliamentary Usage (3)

Theory and practice of parliamentary procedure as it applies to governmental and non-governmental organizations. Includes practice in organizing groups and conducting meetings. (Offered on demand only).

Spch 0215 — Group Discussion (4)

Study of structure and internal dynamics of small groups, nature and functions of leadership and group participation, problem solving and decision making; frequent participation in group discussion activities. (Offered on demand only).

Spch 0220 — Oral Interpretation of Literature (4)

Techniques of oral interpretation and development of adequate intellectual and emotional responsiveness to meaning of literature.

THEATER

Thar 0100 — introduction to Theatre (3)

Theatre as an art form, presented from the historical, literary and production point of view (Greeks to Present). 3 lec.

Thar 0100 A, B, C — Theater-Shawnee Company (3-9)

Introductory study of theater performance and production.

Thar 0201 — Children's Theatre (5)

A course designed to cover dramatic compositions and practical production procedures for child audiences.

Thar 0215A, 0215B, 0215C — Principles of Acting (3-9)

Basic principles and techniques of acting. (Offered on demand only).

Thar 0220 — Oral Interpretation (3)

Techniques in oral interpretation and development of intellectual and emotional responsiveness to meaning of literature.

Thar 0225 - Stage Costume and Make-up (3)

A course designed to cover the basic principles of stage costume and make-up.

Thar 0230 - Music - Theatre (3)

Participation in selected musical theatre projects. Participation may be through production or performance.

WELDING

Weld 0101 — Welding Symbols and Prints (3)

A study of blueprint details of how structures are to be made—weld locations, types of joints, correct size and amount of weld deposited at designated seams. Welding symbols as they apply to all forms of manual and automatic machine welding as standardized by the American Welding Society (AWS).

Weld 0111 — Basic Oxy-Acetylene Welding (4)

A course designed to teach the procedures for oxy-acetylene welding and cutting. Fabrication of gas-welded structures, position welding, and the care of gas-welding equipment are included.

Weld 0112 - Basic Inert Gas Welding (3)

Prereq. Weld 0111.

A course in the fundamentals of gas metal arc welding and tungsten inert gas wleding. Special emphasis is placed on welding ferrous metals with these processes.

Weld 0113 — Basic Arc Welding (4)

Prereq. Weld 0111.

A study of all types of welded joints, stressing care, maintenance, and the use of the arc welder in fabrication of steel structures.

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Weld 0102 — Template Layout and Construction (3)

A course designed for students majoring in Welding, to give a working knowledge of template development. Emphasis is placed on design and making templates for the layouts of various pipe joints.

Weld 0201 — Combined Welding I (4)

Prereq. Weld 0111.

A combined welding course which gives the student experience in varied welding shop projects with oxy-acetylene and arc welding. Practice in making horizontal, vertical, and overhead welds is included.

Weld 0114 — Advanced Arc Welding (4)

Prereq. Weld 0111, 0112, 0113.

A course designed to give the student more advanced practice in gas metal arc and tungsten inert gas arc welding. The course includes the welding of non-ferrous alloys and position welding with these processes.

Weld 0202 — Combined Welding II (4)

A combined course in gas and arc welding to provide the machinist or other tradesman with sufficient welding experience to make minor repairs and to fabricate simple assemblies. Emphasis is placed on the building up of worn parts and the repair of broken parts. The use of low temperature rods is included to make the repair of machine tools, such as milling cutters, possible.

Weld 0211 — Advanced Structural Welding (4)

This course is designed to teach the experienced welder how to certify on structural welding using Electric Arc and welding machines. It also teaches students how to prepare, weld, and test open grove joints in all positions. Certification papers will be presented to all students passing the bend test.

Weld 0121 — Basic Metallurgy (3)

The study of steel classifications, heat treatment procedures, properties of ferrous and non-ferrous metals, and non-destructive testing.

Weld 0122 - Welding Metallurgy (2)

Prereq. Weld 0121.

A lecture-demonstration course designed to give welding students a better understanding of effects of alloying elements on welds. The course utilizes the metallurgy laboratory and deals with the inspection and testing of welds, etching, grain structure changes made be welding, and slags and gases for welding shielding.

Weld 0203 — Combined Welding III (4)

A combined welding course covering gas arc theory and practice, structured for students needing more than the offering of Combined Welding II.

Weld 0212 — Pipe Welding (6)

This course is designed to teach the experienced welder how to certify on pipe welding in all positions using Arc, Mig., and Tig welding machines. It also teaches students how to prepare, weld, and test open grove joints. Certification papers will be presented to all students passing the bend test.

Weld 0213 — Advanced Pipe Welding (4)

A course designed to produce an experienced welder prepared for rapid advancement in the field. It includes non-ferrous welding, tool welding, alloy castings, welding of pressures, vessels, pipe fabrication, and more intricate welding procedures and application.

Weld 0214 — Advanced Inert Gas Welding (3)

A course designed to give the student more advanced practice in gas metal arc and tungsten inert gas arc welding. This course includes the welding of non-ferrous alloys and position welding with these processes.

Weld 0216 — Welding Certification and Testing (6)

Prereq. Weld 0211 and Weld 0212.

A continuing of Weld 0211, Advanced Structural Welding, and Weld 0212, Advanced Pipe Welding, for qualification and certificating testing.

SHAWNEE STATE COMMUNITY COLLEGE

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NOTES

SHAWNEE STATE COMMUNITY COLLEGE

APPLICATION FOR ADMISSION

Complete this application and return it with the non-refundable \$15 application fee to the Office of Admissions. Please have your high school transcript or general equivalence certificate mailed to Shawnee State Community College. If you have attended sity, please have the registrar mail an official college transcript to the Sha missions Office. are Community PERSONAL DATA: NAME: Miss Middle/Maiden/Appended Title PERMANENT OR PARENTS ADDRESS: Zip Code County LOCAL ADDRESS: Zip Code County DATE OF BIRTH: HONE:_ HIGH SCHOOL ATTENDED GED TEST: Date Received HIGH SCHOOL ADDRESS: _ Zip Code County SEX: Male___(1) Female___(2) MARITAL STATUS: Married___(1) Single___(2) Divorced___(3) Widowed___(4) Resident Status for Race/Ethnic: Housing/Living Arrangements: Past 12 Months: _ 0 - Resident of Scioto County 1 - Black/Negro - 1 - Commuter (drive from home) _ 1 - Resident of Ohio, Not Scioto County __ 2 - American Indian or Alaskan _ 4 - Other _ 2 - Resident of Another State - 3 - Asian or Pacific Islander _ 3 - Other National - 4 - Hispanic 4 - Foreign 5 - Caucasion/White 6 - Non-Reisdent Alien VETERANS/FINANCIAL AID

(OVER)

Yes _____No_

Do you wish to apply for financial aid?

Will you be making application for veterans benefits?

TRANSFER INFORMATION:

Previous College Attended:		
Degree Earned:	Dates Attended:	to
Are you transferring college credit to this	institution? YesNo	<u> </u>
Did you receive financial aid? Yes	No If yes, what type?	
Did you receive veterans benefits? Yes	No	
Student intent in enrolling:		
 A. Work toward an associate degr B. Gain qualifications and skills for the course for personal ach D. Complete course for transfer to the course for the course for transfer to the course for transfer to the course for the	or employment (non-degree) ievement enrichment (non-degree) o another institution (non-degree)	
 01 Accounting 02 Banking, Real Estate & Finance 03 Data Processing 04 Retail Marketing Mgt. 05 Secretarial 06 Chemical/Plastics Engineering 07 Civil Engineering 08 Electro-Mechanical Engineering 09 Plant Maintenance Engineering 	 10 Automotive Technology 11 Diesel Technology 12 Welding Technology 13 Corrections Technology 14 Social Services Technology 15 Parks & Recreation Adm. 16 Dental Hygiene 17 Associate Degree Nursing 18 Medical Laboratory Tech. 	 19 Radiologic (X-ray) Technology 20 Practical Nursing (one-year) 21 Respiratory Therapy (one-year) 22 Emergency Medical Technician - Paramedics (one-year) 23 Teacher Education 24 Humanities/Fine Arts 25 Social Sciences 26 Mathematics/Sciences 27 Individualized Studies
Quarter and year you plan to enter: Fall I certify that the statements included		
		Signature of Applicant
Please return the completed application Shawnee State Community College to		r money order made payable to

Admissions Office
Shawnee State Community College
940 Second Street
Portsmouth, Ohio 45662

Please Note: All applicants to the following Allied Health Programs must submit the test results of the American College Test (ACT): Dental Hygiene, Medical Laboratory Technology, Associate Degree Nursing, Radiologic Technology and Respiratory Therapy. It is suggested that applicants have the ACT results submitted to the college beofre May 1.

*This institution does not discriminate with regard to race, color, religion, or national origin; the information requested is for State and Federal reports on equal opportunity for education or employment.

**This institution, in compliance with Section 504 of the 1973 Rehabilitation Act, does not discriminate against handicapped persons.

CALENDAR FOR 1981-82 ACADEMIC YEAR

Summer Over	An 4004 00
Summer Quar	ter 1981-82
June 15	Late registration for Summer Quarter (\$25 late registration fee if enrolled during Spring Quarter)
June 15	Last day to pay fees or make arrangements with Business Office
June 16	First day of classes
June 22	Last day to add a 5-week session course or
	apply for pass/fail
June 22	Last day for full refund on 5-week session course for withdrawal or change order
June 29	Last day to add a full quarter course or apply for pass/fail
June 29	Last day for full refund on full quarter course
	for withdrawal or change order
July 3	Independence Holiday - College Closed
July 9	Last day to drop a 5-week session course or
•	apply for non-credit
July 20	Last day of 5-week session
July 20	Final Exams - 5-week session
July 21	Grades due to ADP for 5-week session
August 4	Last day to drop a full quarter course or apply
	for non-credit
August 3-10	Fall Quarter advising
August 10,11,12,13	3 Orientation and registration for Fall Quarter
August 24	Full Quarter ends
August 25,26	Final Exams
August 27	Grades due to ADP
Fall Quarter 19	981-82
August 3-10	Fall Quarter advising (schedule available)
	Registration and orientation for Fall Quarter
September 7	Labor Day - college closed
September 8.9	Late registration (\$25 late fee required if
	enrolled during Summer Quarter)
September 9	Last day to pay fees (late payment of \$20 after this date)
September 10,11	Faculty in-service
September 14	First day of classes
September 25	Last day to add a class or apply for pass/fail
September 25	Last day for full refund for withdrawal or change order
September 28-30	50% refund of instruction fees upon withdrawal
October 1-5	25% refund of instruction fees upon withdrawal
October 12	Columbus Day - college open
October 26 -	Winter Quarter student advising period
November 10	
	2 Early Registration Winter Quarter
November 2	Last day to drop a class or apply for non-credit
November 11	Veterans Day - college closed
November 26,27	Thanksgiving Holiday - college closed (President's Day)
December 2	Quarter ends
December 3,4,5,7,	Finals for evening and Saturday classes
89	•

December 3,4,7,8 Finals for day classes
December 10 Grades due to ADP by

December 25 December 31 -January 1 Grades due to ADP by 4:00 p.m.
Christmas Day - college closed
New Years Holiday - college closed
(Columbus Day)

Winter Quarter 1981-82		
January 4	Late registration for Winter Quarter (\$25 late fee if enrolled during Fall Quarter)	
January 4	First day of evening classes only	
January 4	Last day to pay fees (late payment fee of \$20 after this date)	
January 5	First day of classes	
January 18	Last day to add a class or apply for pass/fail	
January 18	Last day for full refund for withdrawal or change order	
January 19	Martin Luther King Day - college closed	
January 20-22	50% refund of instructional fee upon withdrawal	
January 25-28	25% refund of instructional fee upon withdrawal	
February 1-15	Spring Quarter student advising period	
February 16,17,18	Early Registration Spring Quarter	
February 15	President's Day - college open	
February 22	Last day to drop a class or apply for non-credit	
March 16	Quarter ends	
March 17,18,19, 20,22,23	Finals for evening and Saturday classes	
March 17,18,19,22	Finals for day classes	
March 24	Grades due to ADP by 12:00 noon	
Spring Quarter	[,] 1981-82	
April 5	Late registration for Spring Quarter (\$25 late fee if enrolled during Winter Quarter)	
April 5	First day of evening classes only	
April 5	Last day to pay fees (late payment fee of \$20 after this date)	
April 6	First day of classes	
April 19	Last day to add a class or apply for pass/fail	
April 19	Last day for full refund for withdrawal or change order	
April 20-22	50% refund of instructional fees upon withdrawal	
April 26-29	25% refund of instructional fees upon withdrawal	
April 26 - May 10	Summer Quarter student advising period	
May 11,12	Early Registration Summer Quarter	
May 24	Last day to drop a class or apply for non-credit	
May 31	Memorial Day observed - college closed	
June 9	Quarter ends	
June 9,10,11,12,	Finals for evening and Saturday classes	
4446	,	

Finals for day classes

Grades due to ADP by 12:00 noon Graduation practice Graduation

June 10,11,14,15 June 16

June 17 June 20

CALENDAR FOR 1982-1983 ACADEMIC YEAR

Summer Qua	arter 1982-83	Winter Q
June 21	Late registration for Summer Quarter (\$25 late fee if enrolled during Spring Quarter)	January 3
June 21	First day of evening classes only	January 3
June 21	Last day to pay fees (late payment of \$20 after this date)	January 3
June 22	First day of classes	January 4
June 29	Last day to add a 5 week session course or apply for pass/fail	January 17 January 17
June 29	Last day for full refund on 5 week session	
	course for withdrawal or change order	January 18
July 5	Independence Day observed - college closed	January 19
July 6	Last day to add a full quarter course or apply for pass/fail	January 24 January 31
July 6	Last day for full refund on full quarter course for withdrawal or change order	February February 1
July 14	Last day to drop a 5 week session course or apply for non-credit	February 2 February 2
July 27	Last day of 5 week session courses	March 15
July 27	Final exams for 5 week session	March 16,1
July 28	Grades due to ADP for 5 week session	19,21,22
August 2-16	Fall Quarter student adivsing period	March 16,1
August 10	Last day to drop a full quarter course or apply for non-credit	March 23
August 16,17,18	3,19 Registration for Fall Quarter	Spring C
August 31	Full Quarter ends	April 4
August 31	Final exams for full quarter	April 4
September 1	Grades due to ADP by 12:00 noon	April 4
		April 4
Fall Quarter	1982-83	: -p-:

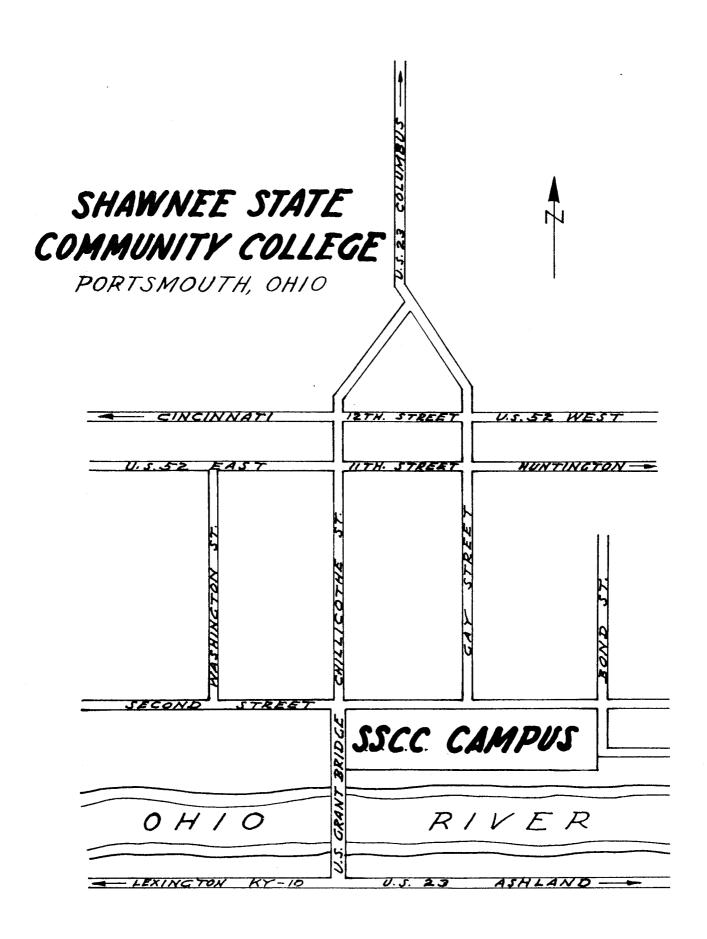
September 1	Grades due to ADP by 12:00 noon
Fall Quarter 19	82-83
August 9	Fall Quarter advising
	Registration and orientation for Fall Quarter
September 6	Labor Day - college closed
September 7,8	Late registration (\$25 late fee required if enrolled during Summer Quarter)
September 8	Last day to pay fees (late payment fee of \$20 after this date)
September 9-10	Faculty in-service
September 13	First Day of classes
September 24	Last day to add a class or apply for pass/fail
September 24	Last day for full refund for withdrawal or change order
September 27 - October 1	50% refund of instructional fees upon withdrawal
October 4-6	25% refund of instructional fees upon withdrawal
October 11	Columbus Day - college open
October 25 -	Winter Quarter student advising period
November 9	
November 8,9,10	Early Registration Winter Quarter
November 1	Last day to drop a class or apply for non-credit
November 11	Veterans Day - college closed
November 25,26	Thanksgiving Holiday - college closed (President's Day)
December 1	Quarter ends
December 2,3,4,6, 7,8	Finals for evening and Saturday classes
December 2,3,4,5,7	Finals for day classes
December 10	Grades due to ADP by 4:00 p.m.
December 23,24	Christmas Holiday - college closed (Columbus Day)
December 31	New Years Holiday - college closed

Winter Quarter 1982-83

January 3	Late registration for Winter Quarter (\$25 late fee if enrolled during Fall Quarter)
January 3	First day of evening classes only
January 3	Last day to pay fees (late payment of \$20 after this date)
January 4	First day of classes
January 17	Last day to add a class or apply for pass/fail
January 17	Last day for full refund for withdrawal or change order
January 18-21	50% refund of instructional fees upon withdrawal
January 19	Martin Luther King Day - college closed
January 24-27	25% refund of instructional fees upon withdrawal
January 31 -	Spring Quarter student advising period
February 14	
February 15,16,17	Early Registration Spring Quarter
February 21	President's Day - college open
February 21	Last day to drop a class or apply for non-credit
March 15	Quarter ends
March 16,17,18, 19,21,22	Finals for evening and Saturday classes
March 16,17,18,21	Finals for day classes
March 23	Grades due to ADP by 12:00 noon

Quarter 1982-83

•	
April 4	Late registration for Spring Quarter (\$25 late fee if enrolled during Winter Quarter)
April 4	First day of evening classes only
April 4	Last day to pay fees (late payment fee of \$20 after this date)
April 5	First day of classes
April 18	Last day to add a class or apply for pass/fail
April 18	Last day for full refund for withdrawal or change order
April 19-22	50% refund of instructional fees upon withdrawa
April 25-28	25% refund of instructional fees upon withdrawa
April 25 - May 9	Summer Quarter student advising period
May 10,11	Early Registration Summer Quarter
May 23	Last day to drop a class or apply for non-credit
May 30	Memorial Day - college closed
June 8	Quarter ends
June 8,9,10,11, 13,14	Finals for evening and Saturday classes
June 9,10,13,14	Finals for day classes
June 15	Grades due to ADP by 12:00 noon
June 16	Graduation practice
June 19	Graduation



SHAWNEE STATE COMMUNITY COLLEGE

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