Charlotte Hardy

**Shawnee State University** 

61,00



A State of Ohio Assisted University 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

## SHAWNEE STATE UNIVERSITY

Portsmouth, Ohio 45662 Phone 614-354-3205

"In compliance with section 504 of the rehabilitation act of 1973, Shawnee State University 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, age, political affiliation, or national origin. (Mary Beaumont, Coordinator of Services for the Handicapped)

PLEASE NOTE
The policies and practices outlined in this publication may be revised, revoked, or supplemented at the discretion of the University subject to reasonable time notifications. They are in no way to be considered contractual obligations.

# MAJORS OFFERED AT SHAWNEE STATE UNIVERSITY

# ASSOCIATE OF APPLIED BUSINESS DEGREE

Accounting

**Business Management** 

Retail Management

Banking/Finance

**Business Management** 

**Real Estate** 

**Data Processing** 

Secretarial

General

Executive

# ASSOCIATE OF APPLIED SCIENCE DEGREE

Electro-Mechanical Engineering Instrumentation Technology Major in Robotic Technology Plastics Engineering

Dental Hygiene
Associate Degree Nursing
Medical Laboratory
Physical Therapist Assistant
Occupational Therapy Assistant
Radiologic Technology
Respiratory Therapy 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**

Art

Communications (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

Recreation Studies

Veterinary

Zoology

# ASSOCIATE OF INDIVIDUALIZED STUDIES DEGREE

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

\*Shawnee State University is in the process of developing Bachelor's Degree programs in several areas. It is anticipated that these majors will be available for student enrollment during summer quarter of 1988.

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## **ACCREDITATIONS**

Shawnee State University is accredited as a two-year institution by: NORTH CENTRAL ASSOCIATION OF COLLEGES AND 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--Division of Vocational Education

Ohio College Association

American Dental Association

American Medical Association--Committee on

Allied Health Education & Accreditation

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 or 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 evaluations.

<sup>\*</sup>Upperdivision and graduate level programs will be reviewed for accreditation as they are developed.

# MISSION OF THE COLLEGE

**ADMISSIONS PROCEDURES** 

ACADEMIC INFORMATION

FEES AND EXPENSES

STUDENT ACTIVITIES

STUDENT SERVICES AND FACILITIES

## PROPOSED BACCALAUREATE DEGREE PROGRAMS AND MAJOR ADJUSTMENTS

Shawnee State University was created in July, 1986. Since then the University has been in the process of developing several baccalaureate programs. During the 1987-88 academic year, Shawnee State will submit these proposals to the Ohio Board of Regents for approval. Specific requirements for the new programs will be included in the 1988-89 catalog.

At this time, Shawnee State is developing degree programs as follows: The present offerings, in the 1988-1989 academic year, will be augmented by first year programming leading to the Baccalaureate Degree with a major in either Social Science, Natural Sciences, or English and Humanities, supplemented by courses leading to certification in Elementary Education. New Baccalaureate Degrees are being developed with a major in Plastics Engineering Technology, Manufacturing Engineering Technology, Electronics (Computer)Technology, and Business Administration with a major in General Business. Both the Bachelor of Arts and Bachelor of Science degrees will be awarded depending upon the specific area of study. Some upper division courses in these majors will be available during the 1988-1989 academic year. Full upper division course work will not be initiated until the 1990-1991 academic year.

Associate degree programs in Automotive Technology, Diesel Technology, Welding Technology, and Civil Engineering Technology, presently offered, will be discontinued. No new admissions applications for these majors will be accepted for the 1987-88 academic year. Courses will be scheduled which will allow students presently enrolled in these programs to finish graduation requirements through the 1987-88 academic year.

# GENERAL ADMISSION REQUIREMENTS

Admission to degree programs at Shawnee State University is open to graduates of state chartered or regionally accredited high schools and to students who have earned high school equivalency through the General Educational Development program (GED). However, admission to the university does not guarantee admission to specific programs of study. Students who intend to apply for admission to programs in the Allied Health Technologies should refer to the appropriate section of this catalog for specific admission requirements.

Admission to students not seeking a degree at Shawnee State University is also open. The minimum requirements for admission of all students, both degree seeking and non-degree

seeking include:

a completed application for admission
 a \$15 non-refundable application fee

There are varying additional requirements for students in different categories, including recent high school graduates, transfer students, special non-degree students, transient students, international students, and eligible students who are still attending high school. Requirements for each are discussed in the following sections.

It is recommended that the high school background of the entering freshman include:

4 units English
3 units math (Algebra I and II, Geometry)
3 units social studies
3 units science
2 units foreign language
1 unit visual performing arts (drama, music, art)

These courses are recommendations, not requirements. However, students who have deficiencies in English or math may be required to take developmental courses prior to attempting college level work.

#### **DEGREE AND CERTIFICATE STUDENTS**

Beginning with the Fall Quarter, 1988, all students pursuing the four-year baccalaureate or two-year associate degrees, or the one-year certificate are required to have scores from the ACT or S AT forwarded to Shawnee State University in addition to the general admissions requirements of application and application fee. Only applicants who are high school graduates for 3 or more years are exempt from providing ACT or SAT scores.\*

Although Shawnee State University has an open admission to the university it does require results of these tests for

Although Shawnee State University has an open admission policy and does not use the ACT or SAT for determining admission to the university, it does require results of these tests for use in advisement and placement. Students who have not yet taken the ACT or SAT may contact the Shawnee State University Admissions Office for information about future ACT test dates. Applicants who have not taken the ACT or SAT will be accepted as "provisional students" but must take the ACT during the initial quarter of enrollment. Students who have not taken the ACT by the end of their first quarter of attendance will not be permitted to register for subsequent quarters.

## **Recent High School Graduates**

Students who are recent high school graduates are required to submit a final, official transcript of academic work to Shawnee State University. Students may send a High School Transcript Request form (available in the Admissions Office) or a written request to the high school requesting an official transcript be forwarded directly to the university. Students who have successfully completed the GED may use the special GED transcript request form (available in the Admissions Office) to have official GED transcripts sent to the university, or they may request official transcripts directly from the State GED Office, Ohio Department of Education, 65 South Front Street, Room 812, Columbus, Ohio 43266-0308. Transcripts should be mailed to:

Admissions Office Shawnee State University Portsmouth, Ohio 45662

\*The American College Test (ACT) is required for admission to some of the Allied Health Technologies of all applicants. Specific information about required scores is stated in that section of the catalog

Transcripts must be received directly from the high school or State GED Office. Photocopies and hand-carried transcripts will not be accepted.

#### **Advanced Placement**

Shawnee State University recognizes that some courses completed in high schools or vocational schools may be equivalent to some entry-level coursework at Shawnee State. In order to avoid repetition of such courses and to encourage advanced study in the respective disciplines, Shawnee State has entered into "Articulation Agreements" with many high schools, vocational schools or school districts. This allows the award of advanced placement (AP) credit for certain coursework completed at the high school where articulation agreements are in place. Such AP credit waives the student's course requirement. A more advanced class must be completed to replace the waived course.

Please contact the Director of Records or your high school counselor for information concerning eligibility for AP credit.

## Undeclared Major/Undecided Student

Students who intend to pursue a degree but are undecided as to a major may remain "undeclared" until they earn their first 45 quarter hours of credits. At the completion of 45 hours, undeclared students will be required to declare a major or be prohibited from registering for classes.

#### **Transfer Students**

Students who have attended other regionally-accredited colleges or universities may transfer to Shawnee State University provided they were in good academic standing at the institution attended most recently. In addition to the application for admission, application fee and official high school transcript, transfer students are required to provide an official transcript from each college or university previously attended. High school, GED and college transcripts must be received directly from those institutions. Photocopies and hand-carried transcripts will not be accepted. Transfer students may be admitted as "provisional students" until such time as the official transcripts are received from all previous colleges.

Transfer students who have earned fewer than 90 quarter hours of credit, and have been out of high school fewer than 3 years are required to take the ACT. They may attend Shawnee State as "provisional students" but must take the ACT during the initial quarter of enrollment. Transfer students who must take hACT and have not taken it by the end of their first quarter of attendance will not be permitted to register for subsequent quarters.

Credits applicable to the curriculum for which the student is applying which were earned at regionally accredited colleges or universities are accepted at the time of admission. Only courses completed with a grade of "C" or better are eligible for transfer. A maximum of one-half of the total credit hours required for the completion of a baccalaureate degree may be accepted as transfer credit. A minimum of thirty (30) credit hours must be earned at Shawnee State University to be considered for the award of an associate degree.

Students who have attended non-regionally accredited colleges or universities may transfer to Shawnee State University provided they meet all admission standards applicable to other transfer students. Credits applicable to the curriculum for which the student is applying which were earned at non-regionally accredited institutions will be considered for acceptance as transfer credit if:

- a) the student has completed the associate degree at that institution, and
- b) the student validates the award of credit by completing, with a grade of "C" or better, a planned program of courses totaling a minimum of 30 credit hours applicable to a four year curriculum as approved by the Director of Records.

For students transferring credit from non-regionally accredited colleges or universities, a maximum of 90 quarter hours will be considered for transfer. A minimum of 45 quarter hours must be earned at Shawnee State University to be awarded any baccalaureate degree.

#### International Students

International students are required to file an application for admission, a \$15 application fee (this fee may be deferred until registration) and official transcripts and certificates for all secondary and post-secondary studies. Transcripts and certificates which are not in English must be accompanied by official translations.

For students whose native language is not English, the official scores on the TOEFL (Test of English as a Foreign Language) must be forwarded to the Admissions Office directly from the Educational Testing Service, Box 592, Princeton, New Jersey 08540. A minimum score of 500 is required for admission to the university without restrictions.

The Shawnee State University budget for a self-supporting student is \$5,000 for the 1987-88 academic year. The applicant must present a statement from a U.S. bank indicating that the 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 and support (\$10,000) and that these resources will be available to the applicant. Students pursuing a four-year baccalaureate program must present a statement indicating that \$20,000 will be available to the applicant for education and support. Immigration regulations prohibit international students from earning money while a student in this country, and there are no scholarships available for students from abroad. available for students from abroad

International students accepted for admission will receive an acceptance letter and an I-20 form to be used to secure a student visa. Questions pertaining to a student visa should be directed to the local office of the Department of Immigration.

All international students must show a non-immigrant "F-1" visa to register for classes.

#### Non-Degree Students

Special Non-Degree Students
Students who are not interested in pursuing a degree but who wish to take courses are required to file an application for admission with the \$15 application fee. Transcripts of high school and college work are not required, nor is ACT/SAT testing. However, if at a later time, the non-degree student decides to pursue a degree program, all admission requirements in effect at the time of initial enrollment must be met. These requirements include official transcripts from high school (and/or the GED) and college work, and the ACT or SAT, and may include specific ACT scores and other testing, recommendations, etc., if any of these are required for the major being declared.

Students enrolled in the GED program are special, non-degree students and, as such, are not required to take the ACT. If, after completion of the GED a student wishes to pursue a degree, the student will be subject to requirements for admission of a degree applicant.

Special non-degree students may take courses which have no prerequisites or courses for which the student has the appropriate prerequisite. For courses assuming prior knowledge or a certain degree of proficiency, placement testing may be advised or required prior to registration.

Transient Students

Students who are enrolled at or seeking a degree at another college or university, but who wish to take course work temporarily at Shawnee State University, are considered transient students. As non-degree students (at Shawnee State) said students would be required only to file an application for admission with the \$15 application for with the \$15 application fee.

Although transcripts of high school and college work are not required of transient students, such transcripts, especially those from the individual's home campus, are helpful in advising appropriate course work. Unofficial transcripts or grade cards will be required if these are needed to verify prerequisites for courses to be taken at Shawnee State University.

Transient students are <u>strongly advised</u> to consult with the appropriate counselor or advisor at the home college or university as to the appropriate course work to be taken at Shawnee State and how that course work will transfer to the home campus of the transient student.

In the event a transient student decides to seek a degree at Shawnee State University, he or she will become a "transfer student" and will be bound to all requirements for a degree-seeking (transfer) student, including whatever requirements existed for the major to be pursued at Shawnee State in effect at the time of initital enrollment

High School Students
Students who are still enrolled in high school may attend Shawnee State University on a part-time basis. The application for admission and \$15 application fee must be accompanied by a recommendation by the high school principal or counselor and written consent by parents or guardian. Letters of recommendation and permission must be submitted each quarter of enrollment.

Senior Citizen

older) for courses, on an audit, space available basis. Although formal application and registration are required, no fees are charged. Senior citizens who wish to take courses for credit are charged the usual tuition and fees.

# ACADEMIC INFORMATION

**Academic Integrity** 

Students at Shawnee State University 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. (See Student Handbook)

**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 begins, 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.

All faculty members post 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 Student Records Office. Grades will not be issued orally.

## **Description of Grades**

Grade		ality Points
A	Excellent	4.60 3.67
A- B+		3.33
В	Good	3.00
B-		2.67
C+	Average	2.33
С		2.00
C-		1.67
D+	Poor	1.00
D-		0.67
F	Failing	0
TC	Transfer Credi	t 0
KE	Credit by Exar	n 0
NC	No Credit	0
WD	Withdrawal	0
ì	Incomplete	0
Р	Pass	0
AP	Adv. Placeme	nt 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 Records.

## **Incomplete Grades**

Students unable to attend class for extended periods of time may contact the faculty member responsible for the class to request 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 the Records Office. 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. Students may not take more than one class per quarter on a pass/fail basis without approval of the academic advisor.

## **Course Credit by Examination**

Students have the opportunity to fulfill requirements for selected courses offered at Shawnee State University by examination. Students interested in pursuing this educational option should first secure the advice of an advisor (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 vice-president. The vice-president, after consultation with appropriate faculty, will then make a determination as to the feasibility of the student's request.

A fee of \$30.00 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 they have 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 (CLEP)

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, humanities, and social sciences and history with the recommended scores of the Commission on Educational Credit and Credentials of the American Council on Education (ACE) will be given "KE" credit for the first sequence course in the above areas.

Many Subject Examinations may be used to earn "KE" credit for courses in subject areas of the Examinations. Students must achieve recommended ACE scores 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**

Courses attempted prior to January 1, 1987 may be repeated with the transcript reflecting only the highest grade earned. All courses attempted after January 1, 1987 will be reflected on the transcript. The repeated course will be indicated by the symbol "R". In either situation 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 the course.

The formula for calculating grade point ratios is:

**Total Quality Points** 

Total Hours Attempted = Grade Point Ratio

#### **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 accumulated grade average falls below the following:

Credit Hours Attempted	Accumulative Grade Average
21-40	0.75 or below
41-55	
56-65	1.00 or below
	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 schedules during the first five class days of the quarter (five days of a 5-week summer session) by completing a change order in the Records office. A fee of \$3.00 will be assessed for each change order.

## Withdrawing from a Class

Students may withdraw from a class through the last day of the quarter by completing a change order form at the Student Records Office. A \$3.00 fee will be assessed for each change order. (See refund of fees.)

## Withdrawing from College

Students withdrawing from college when classes are in session must complete the proper forms in the Records Office. 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 Records Office.

**Course Credit by Arrangement** 

Students have the opportunity to fulfill requirements for selected courses offered at University by arrangement. Shawnee State Students interested in pursuing this educational option should first secure the advice of their faculty advisor (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" basis, the student should then contact the appropriate college vice-The college vice-president, 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.

## **Advanced Placement**

Students who have graduated from vocational high school programs may be eligible to receive advanced placement credit for certain courses completed in high school. Contact the Director of Records for further information.

#### **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.

**Residency Status** 

A resident of Ohio for all educational purposes shall be:

- 1. A dependent student living with a parent who has lived in Ohio for 12 months.
- 2. A person who has resided in Ohio for 12 months before enrolling in school.
- 3. A person who is living and employed in Ohio and going to college part time.
- 4. A person on active duty in the U.S. Military, who is stationed in Ohio.

#### Student Load

Students scheduled for 12-20 credit hours Students considered full-time students. scheduled for less than 12 credit hours are considered part-time students. The permission of the Director of Records 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 point ratio in all course work and in his or her 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.

Note: Students in Allied Health and nursing majors must be in good standing in order to graduate. Students must petition to graduate prior to the quarter they intend to graduate. Petitions are available in the Records Office.

## **Graduation with Honors**

Students that achieve an accumulative grade point ratio of 3.5 or above prior to the quarter of graduation will be graduated with honors. Students that have achieved 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 Records immediately.

Students may request transcripts from the Records Office. Transcript fees are \$2.00.

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

#### **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 Students are internship established by faculty. urged to request a copy of these guidelines from faculty advisors.

# FEES AND EXPENSES

Registration Fees

Registration rees

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 MasterCard. 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 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\*

Res	Nonresident	
Instructional fee Full Time Student (12-20 cr.hrs).	\$388.00	\$488.00
(12-20 cr.hrs). Part Time Student (1-11 cr. hrs.)	32.00 per cr. hr.	40.00 per cr.hr.
General Fee Full Time Student Part Time Student Lab Fees Extra fee for each quarter		35.00 3.00 per cr.hr. below
hour in excess of 20 hrs Credit by Examination Course by Arrangement Graduation Fee	32.00 per cr. hr. 30.00 per course 40.00 per cr. hr. 30.00	40.00 per cr. hr. 30.00 per course 40.00 per cr. hr. 30.00

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

#### **Bad Check Policy**

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 check returned for insufficient funds is a federal offense and constitutes nonpayment of your obligation to Shawnee State

Therefore, any student that has a check returned for insufficient funds, and the same is not cleared by the fourteenth day of the quarter, shall be considered in noncompliance with institutional policy and will be administratively dismissed.

Any student administratively dismissed due to a bad check has no recourse for readmission for the current quarter.

#### 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 with the benefit of a very good comprehensive health insurance policy. You may pick up a Student Insurance Program Brochure at the Business Office. Questions concerning student health insurance should be referred to 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 (14th) day of the quarter will result in no refund fourteenth (14th) 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 Refund

(Regular Term)
Prior to first day of classes 1 to 14 calendar days

100% of Tuition

80% of Instructional fee

over 14 calendar days

No refund

Time of Withdrawal\* (5 week session) Prior to first day of classes

Refund 100% of Tuition

1 to 5 calendar days 60% of Instructional Fee

over 5 calendar 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.

Questions concerning 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

**Application Fee** 

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

#### Transcript Fee

The University will produce an official transcript upon written request from the student at a cost of \$2.00 per copy.

Change Order Fee

A fee of \$3.00 will be assessed for each change order processed.

Records Processing Fee
A fee of \$1.00 will be assessed for "copies of schedules, unofficial transcripts, etc."

**Graduation Fee** 

A \$30.00 graduation fee is required prior to the issuance of an official college diploma. Students are not billed for this fee. It is the student's responsibility to pay this fee prior to graduation. Student eligibility to graduate is determined by the records office after the student petitions for graduation.

# STUDENT ACTIVITIES

#### Music and Drama

The music and theatre departments at Shawnee State University actively plan performances the year round. During the University actively plan performances the year round. During the regular school year the music department presents several concerts by the performing choral group, the Shawnee Choir. These performances feature both traditional and contemporary music. The Choir is made up of both university 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. A popular music group at Shawnee State University is the show choir, the Singsations, which makes many appearances throughout the year.

The drama department presents several dramatic 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 Boneyfiddle. The Boneyfiddle productions are open not only to Shawnee State performers, but to community and area performers as well.

#### **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 representatives, and to assist in the maintenance of academic integrity. The climate of the institution is one of the services to the students and assists students in reaching their established goals. Guidelines can be found in the Shawnee State 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 quidelines are officed. it is in this spirit that these guidelines are offered.

### College Rules 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 University, students are expected to observe the standards of propriety at all times. This implies thoughtful consideration of the welfare of the students and the university. Of particular concern to the university are the following areas of particular concern to the university are the following areas of improper conduct which may result in disciplinary action, including suspension from the university.

#### **Unacceptable Conduct**

Unacceptable conduct is concerned with the following areas:

Consumption or possession of alcoholic beverages Possession and/or use of narcotics Harmful or dangerous items (possession and/or use of firearms, etc.) Gambling Dishonesty Forgery Interfering with Safety Procedures

Further information on this area can be found in the library or in the administrative offices. The Behavior Code is published in the 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 Adminstrative Offices.

#### **Cultural Affairs**

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

### **Special Events Committee**

This committee is composed mostly of students. The committee's major function is to plan major concerts. Students interested in serving on this committee should contact the Student Activity Director.

#### Student Senate

A student senate composed of ten members is elected every fall. Interested students should contact the Student Activity Director.

## Student Union-Natatorium-Activity Center

These three facilities are open to students every quarter. Activities vary from billiards, ping pong and pinball to racquetball, basketball, and swimming. Student I.D.'s are required for admission to and utilization of these facilities.

#### Intramural Athletics

The Athletic Department 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 University activities. It is telt that the students at Shawnee State University 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 university officials. Students are asked to participate in planning and supervising various aspects of the program of the program.

#### Tentative Intramural Events 1987-88 Individual Events & **Team Events Dual Events**

- 1. Touch Football
- Basketball
   Volleyball
- 4. Bowling 5. Softball
- 1. Badminton
- Golf
- 3. Tennis 4. Table Tennis
- 5. Archery
- 6. Bridge 7. Chess
- 8. Swimming 9. Handball

#### Interscholastic Athletics

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

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

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 university plans to expand with additional programs in the near future.

# STUDENT SERVICES & FACILITIES

STUDENT SERVICES COUNSELING
The University 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.

Professional Counselors and Building Location:

Mary Beaumont Fred Chrisman **Business Annex** Massie Hall Dr. Paul D. Crabtree Massie hall Tom Davidson Massie Hall Stephen Midkiff Commons Building Rosemary Poston Eugene Wilson Commons Building

Eugene Wilson Commons Building Counseling sessions are confidential.

Office hours will be posted.

**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 or her office.

**Developmental Education** 

- Developmental Education
  Developmental education consists of three areas:

  1. Pre-college courses in mathematics, biology, chemistry, physics, English, reading development, and vocabulary development 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
- 2. 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 a course in which they are experiencing academic difficulty. If students are interested in receiving the services, they should contact the instructor of the course, the Director of Developmental Education, or a student services counselor. If interested in being a tutor, the student should see the Director of Development Education.
- 3. The Learning Center represents an important feature of student services. In the Center students can use a variety of services aimed at helping them succeed at the university. These services include peer tutoring and individualized instructional aids. The Center houses a variety of equipment for student use.

#### 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 Aid Office. The program includes four categories: scholarships, grants, loans, and employment.

Scholarships: The university 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 Aid Office.

scholarships should contact the Financial Aid Office.

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

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 Financial Aid.

#### Placement Services

The nature of the programs offered at Shawnee State University makes two types of placement necessary: Occupational and Transfer Placement:

Occupational Placement: Students interested employment after graduation should contact the Placement Office in advance of the quarter they plan to graduate. Companies and businesses graduates. The Office for Occupational Placement is located in graduates. Massie Hall.

Transfer Placement: Students interested in continuing their education at a four-year college or university other than Shawnee State should contact the Placement Office two quarters before they plan to graduate. The Office of Transfer Placement is located in Massie Hall.

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

#### Housing

Celeron Square offers the Shawnee State student quality, living accommodations on campus. It features fully furnished 3-level townhomes for students. Each unit is designed to house 8 students comfortably. Every townhome has complete kitchen, laundry, dining and living areas. Call University Housing Company (614) 353-5405.

#### Handicapped

Adaptive equipment and services required for the handicapped student are extended through the university's handicapped services.

Students of Shawnee State University that are subject to a physiological defect or deficiency which restricts or limits their mobility may apply to the Director, Special Needs Program for a sentinel key card to the restricted parking lot.

#### Bookstore

The University operates a bookstore for student convenience. Bookstore hours will be posted.

#### Closing the University

If an emergency would exist because of mechanical failure that would necessitate the closing of the university, the announcement would be carried over WPAY, WIOI, WIRO, WLGC, WKEE, WXIZ, WSRW, WRAC, WBEX, WLMJ and WNXT radio and

#### Library Media Services

Library Media Services

The library's holdings reflect the dual aspect of Shawnee State's curriculum. The collection has a high concentration of books and journals in technology, business, and allied health as well as a broad base of liberal arts and sciences materials to support an active college transfer program. Shawnee State's library now houses approximately 70,000 books and 600 currently received periodicals. Should the material you need not be available in our collection, the library can borrow using a computer linkup with 4.000 other libraries

Should the material you need not be available in our collection, the library can borrow using a computer linkup with 4,000 other libraries nationwide. The library is open six days a week for a total of 70 hours, including evenings and Saturdays.

Media Services offers viewing facilities for various forms of media (filmstrips, audio tapes, slides, and videotapes) within the library. Various projectors are also available for classroom use by faculty and students (with faculty approval). Basic media production facilities are also available to faculty and students for producing slides, transparencies and videotapes.

#### Identification Cards

I.D. cards will be issued to Shawnee State University 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 UNIVERSITY

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 University 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 behavorial sciences, natural sciences, humanities, fine arts, teacher education, and several other preprofessional programs.

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

- 1. Secure a catalog of the institution to which they wish to transfer and become familiar with its admission requirements and suggested freshmen and sophomore courses in their major field of
- 2. 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

The transfer programs which are outlined are intended to The transfer programs which are outlined are interioed to indicate typical requirements in various programs. Students assume responsibility for course selections necessary to satisfy the requirements of the senior institution to which they intend to

# 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 exists at 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)--30 qtr. hours of which must be in courses numbered 200. A 2.00 cumulative average is required for graduation.

**Associate of Arts** 

Core Requirements

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

Communications (11 qtr. hrs.)

Two courses from: Eng. 111, Eng. 112, Eng. 115, Eng. 140A, B, C, D (topics in English Languages and Literature), and Speech 0l03.

Natural Sciences (12 qtr. 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

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

C. Social Sciences (12-15 qtr. hrs)

Courses covering two areas: A. Economics (Econ. 101, 102)

B. Psychology

Geography D. Government

History Sociology

G. Anthropology

Humanities (20 qtr. hrs. min.)

Courses covering two areas:

A. Philosophy B. Comparative Arts

C. Humanities

D. Arts

Modern Language

Music

Theater

H. Literature/English

Journalism

Health/Physical Education (2-4 qtr. hrs.)

Two activity courses or Health 202.

#### Concentration Area.

Selected Specialized Courses

Associate of Science

**Core Requirements** I.

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

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 0103.

Natural Sciences/Mathematics (20 qtr. 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)

D. Physics

E. Physical Sciences

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

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

1. (Social Sciences) (12-15 qtr. hrs.)

Three courses covering two areas: A. Economics (Econ. 101, 102) B. Psychology

Geography

D. Government

E. History

Sociology

G. Anthropology

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

A. Philosophy

B. Comparative Arts

Humanities

Art

Music

Theater H. Literature

Journalism

D. Health/Physical Education (2-4 qtr. hrs.)

Two activity courses or Health 202.

#### II. Concentration

Selected Specialized Courses

# SHAWNEE STATE UNIVERSITY

# 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**

Arts

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

Recreation Studies

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  1 Science (Core RequirementsSee Page 16) Modern Math (Math 120 & 121Elem. Topics in Math) Speech 103 Psy 101, General English (Eng. 111, 112, 115, 140 A, B, C, D) 2 Social Sciences (Electives) (Core ReqSee P. 15) Physical Education	12 10 3 4 8 8
Total	46
Sophomore  2(Electives)(Core Requirements—See Page 16). Ling. 270 Music 160, 161 HPER 202 Personal and Community Health HPER 270 Phy. Ed. for the Elem. Teacher HPER (Activity Courses) Art for the Elem. Teacher I, II Psychology (275) (Educ. Psy.) Humanities Electives (Core Requirements—See Page 16)	Hours 12 5 6 4 3 1 6 5 4 4
Total	46

11----

- 1. Three courses required-must include at least one course in Biology and one in the Physical Science. (All courses must include lab).
- 2. Social Science Electives must include one course in Am. Hist. or Am. Govt., Geog. 121 Cultural Geog. and Psyc 0173 Human Growth & Development.
- Growth & Development.

  \*A 30 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) Psychology 101 Social Sciences (Core RequirementsSee Page 16) Natural Sciences (Core Requirementsmust include lab) Humanities (Core RequirementsSee Page 16) Physical Education Electives (Math 150, Psy. 131, Psy. 241) Total	Hours 8 4 8 8 8 1 8 1
Sophomore Speech 103 HPER 202 (Per., and Comm. Health) HPER 250 (Recreational Leadership) Art 201, 202 (Art for the Elem. School I, II)	Hours 3 4 3 6
Physical Education Math (Math 120 or higher) Music 160, 161 Pysc. 275 Electives	1 5 6 5 <u>12</u>
Total	45

Note: 30 hours required at 200 level for graduation

## **EDUCATION (BIOLOGY-GENERAL SCIENCES)**

Freshman English (111, 112, 115, 140 A, B, C, D) Chemistry 141, 142, 143 Biology 111, 112, 113 *Math 201, 202 . Physical Education Total	Hours 8 12 16 10 2 48
Sophomore Speech 103 Physics 201, 202, 203 Humanities (Core RequirementsSee Page 16) Social Sciences (Core ReqPsy. 101 required) Psychology 275 (Educ. Psy.) Electives (Sciences)	Hours 3 12 12 12 12 5 4
Total	48

<sup>\*</sup>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 RequirementsSee Page 16) Social Sciences (Core RequirementsPsy. 101 required) Physical Education Total	Hours 8 12 15 8 4 1 48
Sophomore Chemistry 205, 206, 207 Physics 201, 202, 203 Social Sciences Elective Psychology 275 (Educ. Psy) Chemistry 223 Physical Education Speech 103 Total	Hours 12 12 4 5 10 1 3 47

<sup>\*</sup>Math 130 sequence may be elected in preparation for calculus.

#### **EDUCATION -- COMMUNICATIONS**

## (ENGLISH EMPHASIS)

reshman nglish (111, 112, 115, 140 A, B, C, D)	Hours 8
Natural Sciences/Math (Core Requirement–1 science, 1 math) (Math 120 or higher)	12 12
Social Sciences (Core RequirementsPsy 101 required) Humanities (Core RequirementsSee Page 16) Physical Education	12
Total	45
Sophomore Psychology 275 Speech 103 Speech 105 (Intro. to Mass. Comm.) Speech 220 or Thar. 220 (Oral Inter. of Lit.) Speech 215 (Discussion) Physical Education English 201, 202, or 203 English 204, 205, or 206 English 225 or 226 Electives (English) English (General)	Hours 5 3 4 4 4 4 4 4 8
Total	45

## COMMUNICATIONS-SPEECH EMPHASIS

# EDUCATION-GENERAL SPEECH (SPEECH EMPHASIS)

		(SPEECH EMPHASIS)		
Freshman English 111, 112, 115, 140 A, B, C, D Speech 103 Natural Sciences/Math (At least 1 course in each) (Math 120 or higher) Social Sciences (Core Requirements Psy. 101 required) Humanities (Core RequirementsSee Page 16) Total	Hours 8 3 12 12 12 47	Freshman Speech 103 Speech 105 (Intro. to Mass. Comm) English 111, 112, 115, 140 A, B, C, D Natural Sciences/Math (At least 1 course in each) (Math 120 or higher) Psychology 101 Humanities (Core Requirements—See Page 16).		<b>Hours</b> 6 4 8 12 4 12
Sophomore Psychology 275 (Educ. Psy) Thar. (Elective) Journalism 231 (News Reporting) English 201, 202, 203 Physical Ed  Total  Speech 105 (Intro to Mass. Comm.) Speech 215 (Group Discussion) Speech 220 or Thar. 220 (Oral Interp) Electives	Hours 5 3 4 4 4 2 2 18 4 4 4 4 2 2 2 3 2 5 0	Sophomore Psychology 275 (Educ. Psy) Social Sciences (Core Requirements—See Page 16) Physical Ed. Thar. 220 or Speech 220 (Oral Inter) Speech 215 (Group Discussion) Electives (Thar. 215, Thar. 100) Electives (General) Total	Min. 5	46 <b>Hours</b> 5 8 2 4

## **ENGLISH--ENGLISH COMPREHENSIVE**

# EDUCATION-GENERAL SPEECH (THEATER EMPHASIS)

Freshman	Hours	(THEATER EMPHASIS)	
English 111, 112, 115, 140 A, B, C, D Speech 103 Natural Sciences/Math (At least 1 science and 1 math) (Math 120 or higher) Social Sciences (Core Requirements—Psy 101 required) Humanities (Core Requirements—See Page 16) Physical Education Electives Total	8 3	Freshman Speech 103 English 111, 112, 115, 140 A, B, C, D Natural Sciences/Math (At least 1 course in each) (Math 120 or higher) Social Sciences (Core RequirementsPsy. 101 required) Humanities (Core RequirementsSee Page 16) Total	Hours 6 8 12 8 12 46
Sophomore Social Science (Core RequirementsSee Page 16) Humanities (Core RequirementsSee Page 16) Psychology 275 (Educ. Psy.) English 201, 202, or 203 English 204, 205, 206 English 225 and 226 Electives (Must include 1 English course above freshmar level)	Hours 4 5 4 8 8	Sophomore Psychology 275 (Educ. Psy) Social Sciences (Core Requirements—See Page 16) Physical Ed Thar. (Electives) Electives Total	Hours 5 4 8 27 6 4
Total	45		

#### **EDUCATION--HEALTH**

Freshman English 111, 112, 115, 140 A, B, C, D Speech 103 HPER 261 (Introduction to P.E. & Health) Psychology 101 Sociology 101 Biology 111 Math (1 course) (Math 120 or higher)	Hours 4 3 2 4 4 5 4-5 8	Freshman English 111, 112, 115, 140 A, B, C, D Chemistry 141, 142, 143 *Math 201, 202, 203 Humanities (Core RequirementsSee Page 16) Social Sciences (Core RequirementsPsy. 101 required) Physical Education Speech 103	Hours 8 12 15 4 4 2 3
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) Natural Sciences (Core Requirements—See Page 16)  TOTAL	4 2 3 2 4 4 49-50	TOTAL  Sophomore Physics 201, 202, 203 Humanities (Core RequirementsSee Page 16) Psychology 275 (Educ. Psy.) Social Sciences (Core RequirementsSee Page 16)	48 Hours 12 8 5
Sophomore English (111, 112, 115, 140 A, B, C, D) Psychology 275 (Educ. Psy.) Comparative Arts and/or Philosophy Biology 290, 291 (Anatomy & Psysiology) HPER 202 (Personal and Community Health) HPER 110 (3 Activity Classes) HPER 204 (Drugs, Alcohol and Tobacco) HPER Electives TOTAL	Hours 4 5 4 10 4 3 4 11 45	Electives (Sciences)  TOTAL  *Math 130 sequence may be elected in preparation for calcu	12 45 lus.

Hours

#### **EDUCATION--PHYSICAL EDUCATION\***

## Freshman English 111, 112, 115, 140 A, B, C, D Speech 103 HPER 261 (Introduction to P.E. & Health) Psychology 101 Social Science (Elective) 32445 Social Science (Elective) 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) Natural Sciences (Core Requirements--See Page 16) 8 4 2 3 4 49-50 **TOTAL** Sophomore English (111, 112, 115, 140 A, B, C, D) Psychology 275 (Educ. Psy.) Comparative Arts and/or Philosophy Biology 290. 291 (Anatomy & Physiology) 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 241 Athletic Officiating Baseball HPER 281 (Administration of Intramural Athletics) Hours 5 10 4 446 4 48 TOTAL

**EDUCATION--(PHYSICS-GENERAL SCIENCE)** 

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 16) History 101, 102, 103 Psychology 101	Hours 8 8-10 4-5 12 12 4
TOTAL	48-51
Sophomore History 201, 202, 203 Government 101 and 102 Humanities elective (200 level) Geography 101 Psychology 275 (Educ. Psy.) Sociology 101 Anthropology 201 Speech 103 Physical Education TOTAL *For preparation leading to state teacher certification in a histogovernment comprehensive, students consult faculty in the Sociology	ociai
Science Division and the appropriate catalog of the college to they plan to transfer.	

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

Note: 30 hours required at 200 level for graduation.

**EDUCATION--SOCIAL STUDIES\*** 

# **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**

## PRE-ART MAJOR (GRAPHIC DESIGN EMPHASIS)

Freshman English 111, 112, 115, 140 A, B, C, D Natural Sciences (Core Requirements—See Page 16) Social Sciences (Core Requirements—See Page 16) Art 101, 102, 103 (Studio Foundations) Physical Education TOTAL	Hours 8 12 12 15 1 1 48	Freshman English 111, 112, 115, 140, A, B, C, D Natural Sciences (Core RequirementsSee Page 16) Social Sciences (Core RequirementsSee Page 16) Art 101, 102, 103 (Studio Foundations) Art 104 (Terminology, Tools & Materials for the Graphic Designer)	Hours 8 12 12 15
Sophomore Speech 103 Art 221, 222, 223 (Painting I, II, III) and/or Art 231, 232, 233 (Ceramics I, II, & III) Art 271, 272, 273 (Life Drawing I, II, III) Comparative Arts (101, 102, 103) Art Electives Physical Education TOTAL	Hours 3 12 12 9 8 1 45	Sophomore Speech 103 Art 251 (Techniques in Illustration & Design I: Typography for the Graphic Designer) Art 252 (Techniques in Illustration & Design II: Basic Illustration) Art 253 (Techniques in Illustration & Design III: Basic Illustration) Art 253 (Techniques in Illustration & Design III: Basic Illustration) Art 271, 272, 273 (Life Drawing I & II) Art 221, 222, 223 (Painting I, II, III) Art 205 Graphic Design Production Techniques Art 215 Photography for the Graphic Designer Comparative Arts 101, 102, 103	51  Hours 3 4 4 8 12 4 9 52

#### **COMPARATIVE ARTS CONCENTRATION**

Freshman Speech 103 English (111, 112, 115, 140 A, B, C, I Natural Sciences (Core Requirement Social Sciences (Core Requirements Comparative Arts 101, 102, 103 Physical Education TOTAL	D) sSee Page 16) See Page 16)	Hours 3 8 12 12 9 2 46	PRE-COMMUNICATIONS (GENERAL) MAJOR  Freshman English 111, 112, 115, 140 A, B, C, D Natural Sciences (Core Requirements—See Page 16) Social Science (Core Requirements—See Page 16) Humanities (Core Requirements—See Page 156 Physical Education	Hours 8 12 12 12 2
Sophomore Music (choose 15 hours) Theater (choose 15 hours) Thar. 100 level Thar. 200 level Art (choose 15 hours) Art 101 (Studio Foundations) Art 102 (Studio Foundations) Art 103 (Studio Foundations) Electives	9 6 5 5 5	Hours 15 15 15 15	TOTAL  Sophomore Speech 103 Jour. 105, or Speech 105 (Intro. to Mass Comm.) Speech 215 (Group Discussion) Thar. 210 or 215 (Acting, or Sp. 220/Thar. 220 (Oral Interp.) Psychology 101 (Principles of Pscyhology) Electives	46 Hours 3 4 4 27
TOTAL		48	TOTAL	45

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-ENGLISH MAJOR

Freshman English 111, 112, 115, 140 A, B, C, D, Humanities (Core Requirements—See Page 16) Language 111, 112, 113 Natural Sciences (Core Requirements—See Page 16) P.E. or Health	Hours 8 12 12 12 2
TOTAL	46
Sophomore Speech 103 English (201, 202, 203) English (204, 205, 206) English 225, 226 Language 211, 212, 213 Social Science (Core Requirements—See Page 16) English Elective	Hours 3 4 4 8 12* 12 4
TOTAL	47

Note: 30 hours required at 200 level for graduation.

<sup>\*</sup>Dependent upon previous language experience and college to which the student transfers.

#### PRE-JOURNALISM

#### PRE-THEATER MAJOR Freshman Freshman English 111, 112, 115, 140 A, B, C, D Government 102 Natural Sciences (Core Requirements—See Page 16) Philosophy 101, 102, 103 or Lang. 111, 112, 113 Journalism 105 (Intro. to Mass Comm.) Soc. 201 (Current Social Problems) Physical Education Hours Freshman English (111, 112, 115, 140 A, B, C, D) Natural Sciences (Core Requirements—See Page 16) Social Sciences (Core Requirements—See Page 16) Humanities (Core Requirements—See Page 16) Physical Education Hours 12 12 4 4 1 8 12 12 12 1 TOTAL 45 TOTAL 45 Sophomore Speech 103 3 English Classes 200 level or above Thar. Electives Sophomore Speech 103 Economics 101, 102 History 201, 202, 203 or History 111, 112, 113 Psychology 101 Journalism 231 (News Reporting) Physical Education Electives (Social Sciences) Hours Hours 12 <u>29</u> 12 **TOTAL** 45 <u>13</u> **TOTAL** 45

Note: 30 hours required at 200 level for graduation

# **CONCENTRATION AREAS**

## **MATHEMATICS / SCIENCES**

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

<sup>\*</sup>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-BOTANY MAJOR**

Freshman English 111, 112, 115, 140 A, B, C, D Speech 103 Chemistry 141, 142, 143 Biology 111, 112, 113 *Math 201, 202 Physical Education TOTAL	Hours 8 3 12 16 10 2	Freshman English 111, 112, 115, 140 A, B, C, D Speech 103 Chemistry 141, 142, 143 *Math 201, 202 Biology 111, 113 Biology 225 Physical Education	Hours 8 3 12 10 11 5 2
Sophomore Chemistry 205, 206, 207 Biology 211 Biology 225 Biology 210 Social Sciences (Core Requirements—See Page 16) Humanities (Core Requirements—See Page 16)	Hours 12 5 5 5 12	TOTAL  Sophomore Chemistry 205, 206, 207, 223 Physics 201, 202, 203 Social Sciences (Core Requirements—See Page 16) Humanities Electives (Core Requirements—See Page 16)	51 Hours 17 12 12 12
TOTAL	51	TOTAL  *Math 130 sequence may be elected in preparation for calcu	53
*Math 130 sequence may be elected in preparation for caluclus.		to calcu	ius.

<sup>\*</sup>Math 130 sequence may be elected in preparation for caluclus.

## PRE-CHEMISTRY MAJOR

Freshman English 111, 112, 115, 140 A, B, C, D Speech 103 Chemistry 141, 142, 143 *Math Calculus 201, 202, 203 Humanities Elective (Core Requirements—See Page 16) Social Sciences (Core Requirements—See Page 16) Physical Education	Hours 8 3 12 15 4 4
TOTAL	47
Sophomore Chemistry 205, 206, 207 Physics 201, 202, 203 Humanities Elective (Core RequirementsSee Page 16) Social Sciences (Core RequirementsSee Page 16) Chemistry 224 & 225 Physical Education	Hours 12 12 8 8 10 1_

<sup>\*</sup>Math 130 sequence may be elected in preparation for calculus.

## Note: 30 hours required at 200 level for graduation.

#### PRE-ENGINEERING MAJOR

PRE-DENTISTRY MAJOR

Freshman	Hours
A student may obtain one full year in the varion Engineering. The freshman schedule should be freshman curriculum of the college or university transfer.	ous areas of ne built around the y to which you plan to
PRE-FORESTRY MAJO	R
<b>Freshman</b> English 111, 112, 115, 140 A, B, C, D Speech 103	Hours 8 3
Chemistry 141 142 143	9,

Freshman English 111, 112, 115, 140 A, B, C, D Speech 103 Chemistry 141, 142, 143 *Math 201, 202 Biology 111, 112, 113 Physical Education	Hours 8 3 12 10 16 2
TOTAL	<u> </u>

#### Sophomore

See counselor for additional information regarding the Forestry School Transfer.

TOTAL 51

<sup>\*</sup>Math 130 sequence may be elected in preparation for calculus.

#### PRE-MEDICAL TECHNOLOGY MAJOR

#### PRE-OPTOMETRY MAJOR

Freshman Chemistry 141, 142, 143  *Math 201, 202 Speech 103 Biology 111, 113 English (111, 112, 115, 140 A, B, C) Physical Education TOTAL	Hours 12 10 3 11 8 2	Freshman English 111, 112, 115 140 A, B, C, D Speech 103 Chemistry 141, 142, 143 Biology 111, 113 *Math 201, 202 Psychology 101 Physical Education TOTAL	Hours 8 3 12 11 10 4 2
Sophomore Chemistry 205, 206, 207 Chemistry 223, 224 & 225 General Genetics (Biology 225) Social Sciences (Core Requirements—See Page 16) Humanities Elective (Core Requirements—See Page 16)	Hours 12 10 5 12 12	Sophomore Chemistry 205, 206, 207, 224 Physics 201,202,203 Social Sciences (Core Requirements—See Page 16) Humanities Elective (Core Requirements—See Page 16)	Hours 17 12 12 12
TOTAL	51	TOTAL *Math 130 sequence may elected in preparation for calculus.	53

<sup>\*</sup>Math 130 sequence may be elected in preparation for calculus.

Hours

#### **PRE-MEDICINE MAJOR**

• • • • • • • • • • • • • • • • • • • •	
Freshman English 111, 112, 115, 140 A, B, C, D Speech 103 Chemistry 141, 142, 143 Biology 111, 113 *Math 201, 202 Social Sciences (Core RequirementsSee Page 16) Physical Education	Hours 8 3 12 11 10 4
TOTAL	50
Sophomore Chemistry 205, 206, 207, 223 Biology 225 Physics 201, 202, 203 Social Sciences (Core RequirementsSee Page 16) Humanities Elective (Core RequirementsSee Page 16)	Hours 17 5 12 8 12
TOTAL	

PRE-PHARMACY MAJOR

Freshman English 111, 112, 115, 140 A, B, C, D Speech 103 Chemistry 141, 142, 143 Biology 111, 113 *Math 201, 202 Economics 101	Hours 8 3 12 11 10 4
TOTAL	48
Sophomore Chemistry 205, 206, 207, 223 Physics 201, 202, 203 Social Sciences (Core Requirements—See Page 16) Physical Education Humanities (Core Requirements—See Page 16)	Hours 17 12 8 2 12
TOTAL	51

<sup>\*</sup>Math 130 sequence may be elected in preparation for calculus.

#### PRE-PHYSICAL THERAPY MAJOR

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

PRE-MICROBIOLOGY or PUBLIC HEALTH & SANITATION MAJOR		Freshman English 111, 112, 115, 140 A, B, C, D Chemistry 141, 142, 143	Hours 8 12
Freshman English 111, 112, 115, 140 A, B, C, D Speech 103 Chemistry 141, 142, 143 Biology 111, 112, 113	Hours 8 3 12 16	Biology 111, 113 Biology 225 Physical Education 202 Psychology 173 Math 150 or Psychology 261	11 5 4 5 5
*Math 201 Biology 225 Social Science	4 5 <u>4</u>	TOTAL Sophomore	50 Hours
TOTAL	53	Biology 290B, 291B (Anatomy & Physiology I, II) Speech 103	10 3
Sophomore Chemistry 205, 206, 207 Physics 201, 202, 203 Social Sciences (Core Requirements-See Page 16) Humanities Elective (Core Requirements-See Page 16) Physical Education	Hours 17 12 8 12 2	Sociology 101 Physics 201, 202 Psychology 275 Psychology 270 Humanities Elective (Core Requirements—See Page 16) Social Sciences	4 8 5 12 4
TOTAL	51	TOTAL	51

<sup>\*</sup>Math 130 sequence may be elected in preparation for calculus.

Note: 30 hours required at 200 level for graduation.

#### PRE-VETERINARY MAJOR

#### **PRE-ZOOLOGY MAJOR**

Freshman English 111, 112, 115, 140 A, B, C, D Speech 103 *Math 201, 202 Chemistry 141, 142, 143 Biology 111, 113 Zoology 225 Physical Education	Hours 3 10 12 11 5	Freshman English 111, 112, 115, 140 A, B, C, D Speech 103 Chemistry 141, 142, 143 Biology 111, 112, 113 *Math 201, 202 Physical Education Social Science	Hours 8 3 12 16 10 2 4
TOTAL	51	TOTAL	55
Sophomore Chemistry 205, 206, 207, 223 Physics 201, 202, 203 Social Sciences (Core RequirementsPage 16) Humanities (Core RequirementsSee Page 16) TOTAL	Hours 17 12 12 12 12	Sophomore Chemistry 205, 206, 207, 223 Physics 201, 202, 203 Social Sciences (Core RequirementsSee Page 16) Biology 225 Genetics Humanities Elective (Core RequirementsSee Page 16)	Hours 17 12 8 5 12
*Math 130 sequence may be elected in preparation for a		TOTAL	54

## **RECREATION STUDIES**

Freshman English 111, 112, 115, 140 A, B, C, D Speech 103 Math 130 Biol 111, 215, 271 Social Science (Core Requirements—See Page 16) HPER 200 (Introduction to Recreation) HPER 227 (First Aid) HPER 110 (3 Activity Classes) Humanities (Core Requirements—See Page 16) TOTAL	Hours 8 3 4 12 4 4 4 3 8
Sophomore HPER 260 (Outdoor Recreation) HPER 237 (Orientation to Recreation Employment) HPER 250 (Recreation Leadership) HPER Electives HPER 110 (3 Activity Classes) BIOL Electives Social Science (Core Requirements—See Page 16) Humanities (Core Requirements—See Page 16)	Hours 4 1 4 10 3 10 8 4
TOTAL	44

Note: 30 hours required at 200 level for graduation.

<sup>\*</sup>Math 130 sequence may be elected in preparation for calculus.

## **CONCENTRATION AREAS**

## **SOCIAL SCIENCES**

**Business Administration** 

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

<sup>\*</sup>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

## PRE-HISTORY MAJOR

Freshman English 111, 112, 115, 140 A, B, C, D  1Social Sciences *Math 155, 201 Economics 101, 102 Natural Sciences Physical Education TOTAL	Hours 8 8 10 8 12 2 48	Freshman English 111, 112, 115, 140 A, B, C, D Philosophy 101 (Fundamentals) History 111, 112, 113 (United States) Foreign Language or Humanities/Arts Natural Science (2 courses in the same area) Physical Education TOTAL	Hours 8 4 12 12 8 2
Sophomore Humanities (Core Requirements—See Page 16) Social Sciences Business Law 250 Accounting 101, 102, 103 Speech 103 QM 200, 201 (Quantitative Methods) Electives (BMMT 0201 Suggested) TOTAL	Hours 12 4 4 12 3 8 8	Sophomore Speech 103 History 201 202, 203 (West Civ) Philosophy 102 (Logic) Humanities Natural Science History Electives Electives TOTAL	Hours 3 12 4 4 4 6 12

<sup>&</sup>lt;sup>1</sup>Recommended: Government 101, 102 Sociology 101 Psychology 101, 131

#### **PRE-LAW MAJOR**

GOVERNMENT MAJOR		F	Hours
Freshman English 111, 121, 115, 140 A, B, C, D Natural Science (Core Requirements—See Page 16) Physical Education Language or Humanities/Arts 200 level Government 101, 102 Philosophy (102 or 103)	Hours 8 12 2 12 8 4	Freshman English 111, 112, 113,m 115, 140 A, B, C, D Philosophy 102 (Logic), 103 (Moral) Business Law 250, 260 Lab Science (2 quarter sequence) Government 101, 102 Speech 103 Electives (200 level)	8 8 8 8 8 8 8
TOTAL	46	TOTAL	47
Sophomore Speech 103 History (111, 112, 113) Any three courses from the following Govt. 201 (Urban Policitics) 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 Math 150 (Elem. Stat. for Soc. & Behavioral Sciences) TOTAL	Hours 3 12 15 15	Sophomore History 111, 112, 113 Economics 101, 102 Psychology 101 (Introduction) Physical Education Electives (200 level courses) TOTAL *Total 20 hrs. needed in Humanities.	Hours 12 8 4 2 19 45
*Total 20 hrs. needed in Humanities.			

Note: 30 hours required at 200 level for graduation.

<sup>\*</sup>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 RequirementsBiology 111, 112 recommended) Language or Humanities/Arts Psychology 101 Math 150 (Elem. Stat. for Soc. & Behav. Science) TOTAL	Hours 8 8 12 12 4 4 4	Freshman English 111, 112, 115, 140 A, B, C, D Humanities (Core Requirements-See Page 16) Natural Sciences (Core Requirements-Biology 111, 112 recommended Language or Humanities/Arts Sociology 101 (Principles of Sociology) Physical Education TOTAL	Hours 8 8 12 12 4 2
Sophomore Speech 103 Philosophy Sociology 101 (Prin. of Sociology) Sociology 210 (Current Social Problems) P.E. or Health Psychology (Electives) Electives TOTAL	Hours 3 4 4 4 13-15 12	Sophomore Speech 103 Humanities (Core Requirements-See Page 16) Math 150 (Elem. Stat. for Soc. & Behav. Sciences Psychology 101 Anthropology 201 Sociology Electives Electives TOTAL	46 Hours 3 4 4 5 13 12 45

#### PRE-SOCIAL WORK MAJOR

TOTAL 46  Sophomore Hours Speech 103 Math 150 (Elem. Stat. for Soc. & Behav. Sciences) Economics 101, 102 Social Sciences 8	Freshman English 111, 112, 115, 140 A, B, C, D Psychology 101 (General Psychology) Psychology 173 (Child and Adolescent) Sociology 101 (Principles of Sociology) Natural Sciences (Core Requirements—Biology 111, 112 recommended) ¹Social Sciences Philosophy 102 (Moral Philosophy) Physical Education Electives	Hours 8 4 4 4 12 4 4 2 4
	Sophomore Speech 103 Math 150 (Elem. Stat. for Soc. & Behav. Sciences) Economics 101, 102	Hours 3 4

1Recommended: Minorities
Sociology of Education
Sociology of Aging
Urban Society
Social Deviance
Introduction to Family Sociology SOCI 0202
\*\*Introduction to Social Welfare and Social Work
SOWR 0101

\*\*Offered on demand only

Note: 30 hours required at 200 level for graduation.

# **BUSINESS TECHNOLOGIES**

# (ASSOCIATE OF APPLIED BUSINESS DEGREE)

## **ACCOUNTING**

## **BUSINESS MANAGEMENT**

Retail Management Business Management Banking/Finance

Real Estate

## DATA PROCESSING AND COMPUTER TECHNOLOGY

## **SECRETARIAL**

General

Executive

Medical

Legal

## 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 the 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 tor management position within the company. advanced to a top management position within the company.

Governmental Accounting

All organizations need accounting information. Government and 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 dector or lawyer. 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 No.	Course FIRST QUARTER	Class Hrs.	Lab Hrs.	Cr. Hrs
Acct 0101 Engl 0111 ExST 0120	Accounting I Contemporary Writing Skills Business Machines I	3 5 0	4 0 2	4 4 1
*Math BMNT 0101	or approved elective Math (See Advisor) Introduction to Business	5 <u>4</u> 17	0 <u>0</u> 6	4 <u>3</u> 16
Acct 0102 Engl 0112 Econ 0101 *Math BMNT 0201	SECOND QUARTER Accounting II Contemporary Writing Skills II Principles of Economics I Math (See Advisor) Principles of Management	3 5 5 5 4 22	4 0 0 0 0 0 4	4 4 4 4 4 20
Acct 0103 Acct 0104 Engl 0115 Econ 0102	THIRD QUARTER Accounting III Tax Accounting Comp. and Mass Comm. Business Elective II Principles of Economics II	3 3 5 5 5 19	4 3 0 3 0 10	4 4 4 4 4 4 20

<sup>\*</sup>Students with adequate high school mathematics should elect Math 0130 if intending to pursue advanced degrees.

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

#### SECOND YEAR CURRICULUM **ACCOUNTING/PROFESSIONAL EMPHASIS**

Course No.	Course FOURTH QUARTER	Class Hrs	Lab Hrs	Cr Hrs
Acct 0211 Acct 0221 Acct 0205 BusL 0250	Intermediate Accounting I Cost Accounting I Principles of Finance Business Law I Social Science Elective	3 3 4 <u>5</u> 18	4 4 0 0 0 0 8	4 3 4 <u>4</u> 19
Acct 0212 Acct 0222 BMNT 0242 EDPT 0101 Spch 0103	FIFTH QUARTER Intermediate Accounting II Cost Accounting II Business Communications Intro. to Data Processing Pub. Speaking & Human Comm.	3 3 3 2 3 14	4 3 2 3 0 13	4 4 3 3 3 16
Acct 0213 Acct BMNT 0202 *EDPT	SIXTH QUARTER Intermediate Accounting III Accounting Elective Social Science Elective Postal Management Data Processing Elective	3 3 5 3 4 18	4 3 0 0 0 0 7	4 3 4 3 4 18

#### SECOND YEAR CURRICULUM **ACCOUNTING/MANAGEMENT EMPHASIS**

Course No.	Course FOURTH QUARTER	Class Hrs.	Lab Hrs	Cr Hrs
Acct 0221 Acct 0205 BusL 0250	Cost Accounting I Principles of Finance Business Law I	3 3 4 5 3 18	4 0 0	4 3 4
Acct 0211	Social Science Elective Intermediate Accounting I	5 <u>3</u> 18	0 0 0 4 8	4 4 4 4 19
EDPT 0101	FIFTH QUARTER Cost Accounting II Business Law II Intro. to Data Processing Pub. Speaking & Human Comm. Business Elective**	3 4 2 3 0	4 0 3 0 0 7	4 4 3 3 4 18
Acct 0110 EDPT BMNT 0202	SIXTH QUARTER Payroll Records/Accounting Data Processing Elective Social Science Elective Social Science Elective Business Elective **	2 3 5 3 17	3 4 0 0 7	3 4 4 4 <u>3-4</u> 18-19

\*\*BUSINESS ELECTIVES (See Advisor)

EDPT 0201 -- Systems Analysis & Design (4)
ExST 0101 -- Typing I (3)
ExST 0121 -- Intro. to Word Processing (4)
Math 0125 -- Business Mathematics
Math 0155 -- Business Statistics Acct. 0161 -- Accounting W/D.P. Application I (4) Acct 0175 -- Financial Statement Analysis (3) Acct 0231 -- Governmental Accounting (4) Acct 0231 -- Governmental Accounting (4)
Acct. 0241 -- Auditing
Acct. 0261 -- Accounting W/D.P. Application II (4)
BMNT 0102 -- Marketing (4)
BMNT 0240 -- Industrial Relations (4)
BMNT 0241 -- Labor Relations (4)
EDPT 0103 -- BASIC Language II (3)
EDPT 0104 -- COBOL Programming I (4)
EDPT 0105 -- COBOL Programming II (4) Math 0130 - College Algebra I (4)
Math 0131 - College Algebra II (4)
Math 0201 - Calculus I (5) RMMT 0235 — Advertising (3) QMet 0200 — Quantitative Methods I (4) QMet 0201 -- Quantitative Methods II (4)

## **BUSINESS MANAGEMENT TECHNOLOGY**

With majors in

Retail Management Banking / Finance **Business Management** 

Real Estate

#### The Associate Degree in Business Management

The Associate Degree in Business Management is designed to provide the student with the knowledge, understanding, and skills required for entry-level management positions. The successful student is provided access to a career path leading to a variety of challenging and rewarding middle-management positions in business, service organizations, industry and financial institutions.

#### The Core Curriculum

Flexibility is a key feature of the Business Management curiculum. Students will choose 18-24 credit hours within one of the four specialized areas, shown on the following pages, as their area of emphasis. The remainder of the required 45 technical elective hours may be chosen from the remaining three areas of specialization or any other approved business courses offered at Shawnee State. This provides the student the opportunity to design a program compatible with individualized interest and career goals.

#### **BUSINESS MANAGEMENT CURRICULUM**

Course No.	Course	Class Hrs. H		Cr Hrs.
Engl 0111 Math 0125 Acct. 0101	FIRST QUARTER Contemporary Writing Skills I Business Math Accounting I Technical Elective	5 5 3 <u>4-6</u>	0 0 4 <u>4</u>	4 4 4 <u>4-6</u>
		19-21	8	16-18
Engl 0112 Acct 0102 Econ 010	SECOND QUARTER Contemporary Writing Skills II Accounting II Principles of Economics I Technical Elective	5 3 5 <u>4-6</u>	0 4 0 4	4 4 4 <u>4-6</u>
		17-19	8	16-18
Engl 0115 Econ 0102	THIRD QUARTER Composition and Literature Principles of Economics II Technical Elective	5 5 <u>8-10</u>	0 0 8	4 4 <u>8-10</u>
		8-20	8	16-18
Psyc 0101 Engl 0121 BusL 0250	FOURTH QUARTER Principles of Psychology Technical Writing Business Law I Technical Elective	5 3 4 <u>4-8</u>	0 0 0 8	4 3 4 <u>6-8</u>
		16-20	8	17-19
Soci 0101 BusL 0251	FIFTH QUARTER Principles of Sociology Business Law II Technical Elective	5 4 <u>8-10</u>	0 0 0	4 4 <u>8-10</u>
		17-19	0	16-18
Spch 0103 Psyc 0131	SIXTH QUARTER Public Speaking & Human Comm Human Adjustment Technical Elective	. 3 3 <u>10-12</u> 16-18	0 0 0	3 3 10-12 16-18
		16-18	U	10-18

#### Retail Management

Retailing involves all those activities related to the sale of

Retailing involves all those activities related to the sale of consumer goods to consumers. The retailing segment of our economy provides jobs for about 17% of all employed people. These jobs are in small "mom and pop" stores and giant corporate chains in nearly every part of the U.S.

Successful management trainees in retailing can move into a number of challenging jobs. Department managers, assistant buyer or buyer, sales manager, merchandise manager, assistant store manager, and store manager are but a few of the possibilities. If you would like an emphasis in Retailing in the Business Management program, you should take the following courses as part of technical electives: electives:

Course No.	Course	Ciass Hrs.	Lab Hrs.	
	Hrs.			
RMMT 0103	Introduction to Retailing	4	0	4
RMMT 0104	Salesmanship	4	0	4
RMMT 0223	Retail Buying	4	0	4
BMMT 0225	Marketing Case Studies	4	0	4
BAET 0105	Installment Credit	4	0	4
	Sales Promotion	4	0	4
RMMT 0235	Advorticing	À	Õ	4
MIVIVI UZ33	Mayerabilig	-	-	•

#### Banking/Finance

The specialization in Banking and Finance is designed to provide indivduals interested in a career in banking, savings and individuals interested in a career in banking, savings and loans, credit unions, or credit departments of retail companies with the basic knowledge and skills required to gain employment and to advance to managerial level occupations. There are a large number of lower and middle level management positions in most financial institutions that a student would be qualified to fill with this specialty and the requested experience. Some of the managerial positions available in banks are loan officer, trust officer, collections officer, trust officer, and cashier

available in banks are loan officer, trust officer, collections officer branch manager, and cashier.

The Banking and Finance curriculum parallels those required by the American Institute of Banking.

If your area of emphasis is Banking and Finance, you should plan to take the following courses as a part of technical electives required in the Business Management program:

Course No.	Course	Class Hrs.		
BAFT 0102 BAFT 0105 BAFT 0106 BAFT 0202	Hrs. Banking and Finance I Intro. to Commercial Lending Installment Credit Principles of Bank Operations Home Mortgage Lending Investments I	3 4 4 4 4	00000	3 4 4 4 4

### **Business Management**

The Business Management option is a general business curriculum

The Business Management option is a general business curriculum appropriate for three types of students.

First, the option provides a general business background for those who want to work in business but haven't decided on a specific career area. With some experience and, perhaps, additional specialized courses, this option can lead into management trainee programs in most types of business and industry.

Second, this option is appropriate for those with a technical degree or background who want to move into managerial positions.

Third, the curriculum provides an excellent business background for individuals who want to operate their own small business.

If you fit one of the above three categories, you should choose from the following courses for your technical electives:

Course No.	Course Hrs.	Class Hrs.		
BMNT 0102 BAFT 0105 BMNT 0240 BMNT 0241 BMNT 0202 BMNT 0201 BMNT 0202 ACCT 0205 RMMT 0235	Introduction to Business Marketing Installment Credit Industrial Relations Labor Relations Business Communications Principles of Management Personnel Management Principles of Finance	4 5 4 4 4 4 4 4 3 3 4	000000000000000000000000000000000000000	344444334

#### Real Estate

If you have an interest in becoming a real estate agent, real estate broker, appraiser, or manager of a real estate firm the real estate specialization of the Business Management program is for

Successful completion of specific courses in the curriculum meets the requirements of Ohio law and qualifies the student to sit for the Real Estate Salesman's and Real Estate Broker's examination. The curriculum also prepares the student for the Graduate Real Estate Institute examination.

If your area of emphasis is Real Estate, you should choose from the following courses for your technical electives:

Course No.	Course	Class Hrs	Lab Hrs	Cr Hrs	
REST 0210	Real Estate Principles & Practices	4	0	4	
REST 0211	Real Estate Brokerage	4	ŏ	7	
REST 0212	Real Estate Law	4	ŏ	Ž	
REST 0213	Real Estate Finance	4	ŏ	4	
REST 0214	Real Estate Appraisal	4	ŏ	7	
REST 0215	Special Topics in Real Estate	À	ň	Ä	

### Real Estate Salesman's Program

Persons wishing to take the Ohio examination for real estate sales must first successfully complete Real Estate Principles and Practices and Real Estate Law. Both of these courses are offered at Shawnee State.

### **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.
- 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).
- $\mbox{C.}\,$  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) member.

### **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 following: program requirements, application to the Ohio Association of Real Estate Boards, payment of required fees and successful completion of a comprehensive examination.

Please refer to page 67 for the Real Estate Courses and their course description offered at Shawnee State.

### DATA PROCESSING AND COMPUTER TECHNOLOGY

The Data Processing and Computer Technology Associate Degree Program at Shawnee State University 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	Class Hrs	Lab Hrs	Cr. Hrs
	FIRST QUARTER			
Engl. 0111 Acct. 0101 *Math EDPT 0101 EXST 0101	Contemporary Writing Skills I Accounting I Math Intro to Data Processing Typing !**	5 3 5 3 2	0 4 0 2 <u>3</u>	4 / 4 / 3 3 3
		18	9	18
	SECOND QUARTER			
Engl 0112 Acct 0102 *Math EDPT 0103 EDPT 0107	Contemporary Writing Skills II Accounting II Math BASIC Language I RPG II Language	5 3 5 2 3	0 4 0 3 <u>3</u>	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
		18	10	19
	THIRD QUARTER			
Engl 0115 Acct 0103 Math 0155 EDPT 0104 EDPT 0206	Composition and Literature Accounting III Business Statistics BASIC Language II FORTRAN IV	5 3 4 2 <u>3</u>	0 4 0 3 <u>3</u>	44434
		17	10	19
	FOURTH QUARTER			
Engl 0121 Soci 0101 Bus L 0250 EDPT 0201 EDPT 0105	Systems Analysis & Design	3 5 4 3 <u>3</u>	0 0 3 <u>3</u>	3 // 4 / 4 /
		18	6	19

### **FIFTH QUARTER**

EDPT 0202 EDPT 0203	Principles of Management Principles of Economics I Computer Operations Management Business Computer Projects I COBOL Programming II	4 5 3 3 3	0 0 3 <u>3</u>	4 4 4 4
		18	6	19
	SIXTH QUARTER			
Spch 0103 Psyc 0101 *EDPT	Pub Speaking & Human Comm. Principles of Psychology Data Processing Electives	3 5 10-14	0 0 <u>10-18</u>	3 4 / 12
		18-22	10-18	19

### DATA PROCESSING ELECTIVE COURSES

EDPT 204 EDPT 0205 EDPT 0207	Basic & Assembler Programmer (3) Computer Application(4) Business Data Syst. & Comm. (3) Pascal (4) Data Base Management (4)
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See prerequisites on page 69 under Data Processing.

\*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 with advisor's approval.

Typing--Students are to have a high school equivalent or 1 quarter of college typing.

\*\* Typing I - Students may take Typing I and Basic Assembler first quarter concurrently.

\*EDPT 204, 205, 207, 208 - Students may take any 3 of 4 classes.

\*Required courses for Data majors only.

### SECRETARIAL TECHNOLOGY

WITH MAJORS IN EXECUTIVE SECRETARIAL (SHORTHAND REQUIRED) GENERAL SECRETARIAL (NON-SHORTHAND PROGRAM)

following criteria:

and/or Shorthand III.

### **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. This student will not be trained for shorthand dictation but will be qualified as a machine

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 AND LEGAL SECRETARY -- Within the executive or general secretarial program the students are trained to prepare medical and legal documents.

WORD PROCESSING SPECIALIST -- Is qualified to keyboard, revise, and store documents for immediate or future use. student will be fully trained in all functions of a word processor.

### FIRST YEAR CURRICULUM **GENERAL & EXECUTIVE SECRETARIAL MAJORS**

Course Class Lab Cr.					SECOND YEAR CURRICULUM GENERAL & EXECUTIVE SECRETARIAL MAJORS				
No.	Course FIRST QUARTER	Hrs.	Hrs.	Hrs.	Course No.	Course	Class Hrs		Cr Hrs
Engl 0111 Math 0125 ExST 0101 *ExST 0111 BMNT 0101	Contemporary Writing Skills I Business Mathematics Typing I Shorthand I Intro to Business	5 5 3 4 20	0 0 2 2 0 4	4 4 3 3 3 17	BusL 0250 BMNT 0242 *ExST 0214 ExST 0104 ExST 0241 ExST 0121	FOURTH QUARTER Business Law Business Communications Shorthand IV Typing IV Secretarial Practices I Word Processing I	4 3 3 3 3 3	0 2 2 2 2 2 2 2	4 3 3 3 3 3
Soci 0101	SECOND QUARTER  Contemporary Writing Skills II Typing II Shorthand II Accounting I Principles of Sociology	5 3 3 4 18	0 2 2 4 0 8	4 3 3 4 4 4	ExST 0242 Spch 0103 Psyc 0101 *ExST 0215 Econ 0101 ExST 0222	FIFTH QUARTER  Secretarial Practices II Pub. Speaking & Human Comm. Principles of Psychology Shorthand V Principles of Econ I Word Processing II	19 3 3 4 3 5 3	10 2 0 0 2 0 2	19 3 3 4 3 4 3
	counting (Acct 0100), which is for ONLY, may be substituted for Acct	r CAREE 0101 (Ac	R ORI	ENTED		SIXTH QUARTER	21	6	20
ExST 0231 Engl 0115 ExST 0221 ExST 0103 *Exst 0113 EDPT 0101	Records Management Composition & Literature Dictation & Transcription Typing III Shorthand III Intro to Data Processing	3 5 3 3 2 19	2 0 2 2 2 3 11	3 4 3 3 3 3 19	Psyc 0173 BMNT 0202 Acct 0110 *ExST 0216 ExST 0243 ExST 0244 ExST 0245	Human Growth & Development Personnel Management Payroll Records & Accounting Shorthand VI Secretarial Practice III Medical Secretarial Practices Legal Secretarial Practices	4 3 2 0 3 3 3 18	0 0 3 3 2 2 2 2 2 12	4 3 2 3 3 3 20

<sup>\*</sup>General secretarial majors must elect basic business courses instead of shorthand.

Previous Typing and Shorthand Training
Students who have had prior instruction at the high school level in typing and shorthand before coming to Shawnee State University may receive advanced placement for their work if they meet the

If you have successfully completed at least 180 hours (one school year) of typing and/or shorthand and received full credit; you may substitute this credit for our Typing I and Typing II and/or Shorthand I and Shorthand II.

If you have completed at least 360 hours (two school years) of typing and/or shorthand and received a final grade of A or B in the second year, you may substitute this credit for our Typing III

However, if you are not trained on the IBM Electronic 85 typewriter, you must take our Typing III in order to be trained on this machine. You will be required to use the Electronic 85 in Typing IV.

If you are not proficient in typing from your shorthand notes into mailable copy under the pressure of being timed, then you should take our Shorthand III in order to be ready for Shorthand IV which

requires you to be proficient in doing mailable copy work.

# 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	Class Hrs	Lab Hrs	Cr Hrs	Course No.	Course	Class Hrs	Lab Hrs	Cr Hrs
	FOURTH QUARTER					FOURTH QUARTER			
BusL 0250 MDST 0111 MDST 0221	Medical Secretarial Practices I Business Law I Medical Shorthand I Medical Dictation & Transcription I	2 4 2 3 3 3	3 0 3 2 0 0	3 4 3 3 3	LgST 0241 BusL 0250 LgST 0111 LgST 0221	Legal Secretarial Practices I Business Law I Legal Shorthand I Legal Dictation & Trans. I	2 4 2 2	3 0 3 3	3 4 3 3
MDST 0223	Medical Terminology I Basic Business Elective	<del></del>		-	LgST 0223	Legal Terminology & Judicial Procedures Basic Business Elective	2 <u>3</u>	<u>3</u>	3 <u>3</u>
		17	8	19			15	12	19
	FIFTH QUARTER					FIFTH QUARTER			
Spch 0103 Psyc 0101 MDST 022	Medical Secretarial Practices II     Pub Speaking & Human Comm.     Principles of Psychology     Medical Terminology II     Medical Shorthood!	2 3 5 2 2	3 0 0 3 <u>3</u>	3 3 4 3 3	BusL 0260 Spch 0103 Psyc 0101		4 3 5	0 0 0	4 3 4
MDST 011	Medical Shorthand (I	<u>2</u> 14	<u>3</u> 9	<u>3</u> 16	LgST 0224 LgST 0112	Procedures II	2 2	3 <u>3</u>	3 <u>3</u>
	SIXTH QUARTER						16	6	17
MDST 022	2 Medical Dictation & Trans. II	5	0	4		SIXTH QUARTER			
BMNT 020 ExST 0243 ExST 0121	Personnel Management     Secretarial Practices III	5 3 0 <u>5</u>	0 0 15 <u>0</u>	4 3 5 <u>4</u>	LgST 0222 BMNT 020 ExST 0243	Legal Dictation & Trans. II 2 Personnel Management 3 Secretarial Practices III	5 3 0	0 0 15	4 3 5
		13	15	16	ExST 0121	Intro. to Word Processing	5	Q	4
							13	15	16

# **ALLIED HEALTH TECHNOLOGIES**

# (ASSOCIATE OF APPLIED SCIENCE DEGREE)

Associate Degree Nursing
Dental Hygiene
Medical Laboratory
Occupational Therapy Assistant
Physical Therapist Assistant
Radiologic Technology
Respiratory Therapy Technology

## **CERTIFICATE PROGRAMS**

(One Year)

Emergency Medical Technician - Paramedic

Practical Nursing

Respiratory Therapy Technician

# ALLIED HEALTH TECHNOLOGIES ACADEMIC REQUIREMENTS FOR STUDENTS ENROLLED IN ALLIED HEALTH PROGRAMS AT SHAWNEE STATE UNIVERSITY

In order to remain in good standing in an Allied Health Program at Shawnee State University a student must:

- Maintain an overall grade point average of 2.000 for all coursework needed to meet degree requirements. This applies to required courses taken before as well as after admission.
- Maintain an overall Allied Health major grade point average of 2.000 in all courses with the MLTC, DTHY, ADNR, PNRS, PTAT, OTAT, RPTT, RDLT prefix.
- 3. Not receive a grade of F,D-, D, D+ in any Allied Health major course (MLTC, DTHY, PTAT, OTAT, RDLT, ADNR, PNRS, OR RPTT prefix) and academic courses required for graduation.

The following schedule of events shall apply once the student has failed to achieve any one of the three requirements listed above.

- A. The Allied Health Program Director may dismiss a student from his or her major program. The student may appeal the decision of the Allied Health Program Director in the Appeal process as outlined.
  - 1. Student submits a letter of appeal to the Director of Allied Health Program.
  - 2. The Program Director will arrange re-admissions interview with the student, the Director, and the Vice-President of Student Services or his or her designee. A decision will be made regarding the student's dismissal status after evaluating the student's past academic achievement, the student's rationale for current grade status, and the prediction of future performance in the program. A decision must be reached on or before three working days after the Director receives the student's appeal notice.
  - 3. Students that wish to appeal the decision of the Director and the Vice-President of Student Services (or his or her designee) may appeal the decision to the Vice-President of Technical Programs. The student's appeal must be in writing and must be received within three working days of the receipt of notice from the appeal interview. The Vice-President of Technical Programs shall elect to support or reject the decision of the interview within three working days from receipt of the student's appeal. The Vice-President of Technical Programs will promptly notify the Program and the student of the decision.
  - The student may also have recourse to the President if he or she is dissatisfied with decisions made at lower levels.
- B. The Allied Health Program Director may allow the student to continue:
  - 1. If permitted to continue in the program, the student will have one quarter to raise the overall and Allied Health G.P.A. to at least 2.000. The decision to readmit the student will be based on the student's past academic performance, the reasons for the current low G.P.A. and the director's prediction of future performance in the program by the student.
  - 2. If the decision is made to allow the student to continue in the program and if a grade of D+, D, or D- was received in an Allied Health subject (MLTC, DTHY, RDLT, ADNR, PNRS, PTAT, OTAT, or RPTT) or academic courses required for graduation, a decision will be made in an interview informing the student if the course must be repeated and by which method (Course by Arrangement, Credit by Exam, or repeat the course with next year's class).
  - 3. If the decision is made to allow the student to continue in the program and if a grade of "F" was received in an Allied Health or academic subject, a decision will be made in an interview informing the student how this course will be repeated.
- C. Dismissal from a major program is not the same as dismissal from the University. University dismissal policies are outlined in the University bulletin under the section on academics.

### ALLIED HEALTH TECHNOLOGIES **ADMISSION PROCEDURES**

### All Applicants to Allied Health Programs must submit:

- 1. Application and non-refundable \$15 Application Fee.
- 2. High School Transcript by the school or copy of GED with scores forwarded to the Director of Admissions
- 3. Letters of recommendation from two (2) persons who are not relatives forwarded to the Director of Admissions.

Applicants to Allied Health programs who are currently enrolled at Shawnee State University must obtain a grade point average of 2.0 in courses which are required of the degree program. Additional requirements by program are:

#### DENTAL HYGIENE

- 1. Complete the Autobiography Sheet and return to the Director fo Records.
- 2. High school average of least 2.5 on a 4.0 scale.
- 3. Complete algebra, biology, and chemistry on high school or college
- 4. A natural science score of at least 16 on ACT (results forwarded to the Director of Records.)
- 5. Conference with program director when file is complete and criteria
- 6. After the conference, the student may be required to do a three day observation in a dentist's office and send a summary of the observation to the Director of Dental Hygiene. The Director may also request that an acknowledgement be submitted by the dental office involved.
- 7. Applicants will be accepted on the condition that the required physical examination is satisfactory. This is to be done by the applicant's physician prior to August 1 with the results forwarded to the Director of Dental Hygiene.

### **MEDICAL LABORATORY**

- 1. Complete the Autobiography Sheet and return to the Director of Records.
- 2. High school average of at least 2.5 on a 4.0 scale.
- 3. Complete algebra, biology, and chemistry on a high school or college level.
- A natural science score of at least 16 on the ACT (results forwarded to the Director of Records.)
- 5. Conference with program director when file is complete and criteria are met.
- Applicants will be accepted on the condition that the required physical examination is satisfactory. This is to be done by the applicant's physician prior to August 1 with the results forwarded to the Director of Medical Lab.

### OCCUPATIONAL THERAPY ASSISTANT

- 1. Complete the Autobiography Sheet and return to the Director of Records.
- 2. High school average of at least 2.5 on a 4.0 scale
- 3. Complete algebra and biology on high school or college level. \*
- 4. Previous college grade point of at least 2.0 with a grade of "C" or
- better in required courses.

  5. Two letters of recommendation (preferably employer, teacher, or guidance counselor).
- Volunteer or work experience in a health care agency serving disabled or handicapped persons. (Statement from volunteer or work supervisor required if not used as a reference.)

- 7. Conference with program director when file is complete and criteria
- 8. Applicants will be accepted on condition that the required physical examination is satisfactory. This is to be done by the applicant's physician prior to August 1. Results should be forwarded to Director of Occupational Therapy Assistant.

Applications should be completed by April 1 to be accepted for the Fall class. Both OTAT and general education courses must be taken in sequence after admission to the program.

Students not meeting these requirements may correct the deficiency by successfully completing courses in the Developmental Education Program at the university.

### PHYSICAL THERAPIST ASSISTANT

- Complete the Autobiography Sheet and return it to the Director of
- High school average of at least 2.5 on a 4.0 scale.
- Complete algebra and biology on the high school or college level. (Students not meeting these requirements may correct the deficiency by successfully completing courses in the Developmental Education Program at the university).
- Previous college grade point average of at least 2.0 with a grade of "C" or better in required courses.
- 5. Two letters of recommendations, preferably employer, teacher, or guidance counselor.
- Volunteer or work experience in a health care agency serving disabled or handicapped persons. Statement from volunteer or work supervisor required if not used in
- Conference with program director when file is complete and criteria are met.
- Applicants will be accepted on the condition that the required physical examination is satisfactory. This is to be done by the applicant's physician prior to August 1. Results should be forwarded to the Director of Physical Therapist Assistant Technology.

Applications should be completed by April 1 to be accepted for the Fall class. Both Physical Therapist Assistant and general education courses must be taken in sequence after admission to the

program.

Although the ACT is not required for admission to this program, it is recommended that students complete the ACT at the earliest possible date as it may be required for other programs within the college.

PLEASE NOTE: It is very important to understand that fulfilling the criteria does not automatically guarantee the applicant acceptance into the particular program. All interviewed applicants are subsequently ranked. Since the number of qualified applicants may exceed the number of vacancies, the director and admissions committee reserve and exercise the right to select only those applicants that exhibit the most promise of academic and professional success.

### **RADIOLOGIC TECHNOLOGY**

- Complete the Autobiography Sheet and return to the Director of Records.
- 2. High school average of at least 2.5 on a 4.0 scale.
- Complete algebra, biology, and chemistry on high school or college level with a "C" average or better.
- A natural science score of at least 16 on ACT (results forwarded to the Director of Records.)
- Conference with program director when file is complete and criteria are met.
- Applicants will be accepted on the condition that the required physical examination is satisfactory. This is to be done by the applicant's physician prior to August 1 with the results forwarded to the Director of Radiologic Technology.

### RESPIRATORY THERAPY TECHNICIAN

- Complete the Autobiography Sheet and return to the Director of Records.
- 2. High school average of at least 2.5 on a 4.0 scale.
- Complete algebra, biology, and chemistry on high school or college level with a "C" average or better.
- A natural science score of at least 16 on ACT (results forwarded to the Director of Records.)
- Conference with program director when file is complete and criteria are met.
- Applicants will be accepted on the condition that the required physical examination is satisfactory. This is to be done by the applicant's physician prior to August 1 with the results forwarded to the Director of Respiratory Therapy.

### **ASSOCIATE DEGREE NURSING**

- 1. High school average of at least 2.5 on a 4.0 scale.
- High school level algebra, biology, and chemistry with a grade of "C" or better.
- Complete the Autobiography Sheet and return to the Director of Records.
- ACT scores of 16 or better in English, math, social studies, and natural sciences with a composite of 16 or better (results forwarded to the Director of Records).
- Conference with the program director when file is complete and criteria are met.
- Applicants will be accepted on the condition that the required physical examination is satisfactory.

### PRACTICAL NURSING

- 1. High school average of at least 2.0 on a 4.0 scale.
- Scores above the 40th percentile in all areas of the Entrance Examination.
- Complete the Autobiography Sheet and return to the Director of Records.
- 4. Applications will be accepted on the condition that the required physical examination is satisfactory. This is to be done by the applicant's physician during the month preceding the starting date. An appropriate form will be provided.
- 5. Applicants should have strong background in science and math.
- Conference with program director when file is complete and criteria are met.

### EMERGENCY MEDICAL TECHNICIAN-PARAMEDIC

ENTRANCE REQUIREMENTS FOR EMT-A COURSE

- 1. Minimum of 18 years of age.
- 2. Possess a high school diploma or equivalent.
- 3. Possess a current unconditional drivers license.
- Complete the Pre-Entrance Medical Record by submitting to a
  physical examination by a licensed physician and be deemed
  physically able to participate in EMT-A training.
- 5. Complete the college application.

### ENTRANCE REQUIREMENTS FOR ADVANCED EMT-A COURSE

Numbers 1-5 above and:

- 6. Possess current certification as an EMT-A in Ohio.
- Provide evidence of not less than six months experience providing EMT-A level care in the pre-hospital setting.
- Submit a letter of recommendation from a supervisor of the Emergency Medical Service with which the above requirement was met.
- Pass a pre-test addressing EMT-A level knowledge with a 75% score or above.
- Permission for check of applicant with the Bureau of Criminal Investigation (Applicant currently charged with, incarcerated for and/or on parole/probation for a felony charge will not be accepted.)
- Complete a conference with the Program Director showing evidence of maturity, good judgement and good moral character.

Please Note:

It is important to understand that fulfilling the above criteria does not automatically guarantee the applicant acceptance into the particular program. All interviewed applicants are subsequently ranked. Since the number of qualified applicants exceeds the number of vacancies, the director and admissions committee reserve and exercise the right to select only those applicants that exhibit the most promise of academic and professional success.

### DENTAL HYGIENE

Dental hygiene is a vital health service component of dentistry which emphasizes oral health and the prevention of oral diseases. Most dental hygienists are employed in private dental offices or clinics and work under the supervision of the dentist. The hygienist's main function is performing oral prophylaxis—the scaling and polishing of the patient's teeth to remove soft and hard deposits. They also perform other procedures: dental charting and oral examination, exposing and processing dental radiographs, fluoride treatments, and preliminary impressions for study models. The hygienist also places a great deal of emphasis on dental health education—home care, brushing/flossing, and diet/nutritional counseling. counseling.

#### 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 report findings to a supervising dentist. May also instruct students in proper care of teeth, give demonstrations of the proper use of a tooth brush, and present talks on nutrition and its effects on dental health.

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.

Course No.	Course	Class Hrs	Lab Hrs	Cr Hrs
Chem 0121 DtHy 0121 *Biol 0111 DtHy 0111	FIRST QUARTER Intro. General Chemistry I Clinical Dental Hygiene I Prin. of Biology Oral Anatomy I	3 2 4 <u>3</u>	3 6 2 Q	4 4 5 <u>3</u>
		12	11	16
Chem 0122 DtHy 0123 *Biol 0115 DtHy 0101A DtHy 0112	Clinical Dental Hygiene II Human Anatomy & Physiology	3 2 4 2 2	3 6 2 0 0	4 4 5 2 2
		13	11	17
DtHy 0202 DtHy 0101B DtHy 0102	THIRD QUARTER Periodontics Radiology II Gen & Oral Histology	3 1	0 3	3 2
DtHy 0123 Biol 0235	and Embryology Clinical Dental Hygiene III Microbiology	3 1 <u>4</u>	0 8 <u>3</u>	3 4 <u>5</u>
		12	14	17

\*Biol 0290 and Biol 0291 may be substituted for Biol 0111 and Biol 0115 if approval is obtained from Dental Hygiene Program Director.

Course No.	Course	Class Hrs	Lab Hrs	Cr Hrs
DtHy 0124 DtHy 0103 DtHy 0205 Engl 0111	FOURTH QUARTER Clinical Dental Hygiene IV Dental Materials Dental Health Education Contemp. Writing Skills I	2 3 5	9 3 0 <u>0</u>	5 4 3 <u>4</u>
		13	12	16
DtHy 0201 DtHy 0203 Soci 0101 DtHy 0125 Engl 0112	FIFTH QUARTER General & Oral Pathology Nutrition Sociology Clinical Dental Hygiene V Contemp. Writing Skills II	3 3 5 1 5	0 0 0 12 0	3 3 4 5 4
		17	12	19
DtHy 0204 DtHy 0206 DtHy 0126 Spch 0103	SIXTH QUARTER Pharmacology and Anesthesiology Public Health Cinical Dental Hygiene VI Public Speaking & Human Comm.	3 3 1 <u>3</u>	0 0 12 <u>0</u>	3 3 5 3
		10	12	14
DtHy 0250*	Expanded Functions I (Laboratory fee required)	2	6	4
DtHy 0127 Elective* Psyc 0101	SEVENTH QUARTER Clinical Dental Hygiene VII Comm./Leadership* Prin. Psychology	1 <u>5</u>	12 <u>0</u>	5 3 <u>4</u>
		6	12	12
DtHy 0251*	Expanded Functions II (Laboratory fee required)	0	8	2

After the first quarter courses, all subsequent basic and technical courses are closely 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.

### \*COMMUNICATION/LEADERSHIP ELECTIVE

(AT LEAST 3 CREDIT HOURS)

Any English course 0115 or higher Any Journalism course Any Foreign Languages course Any Speech course above 0103
Any Theater course
BMNT 0202 - Personnel Management BMNT 0242 - Business Communications Special Topics or seminars in Dental Hygiene

### \*Expanded Functions Program

This two-quarter elective program consists of DTHY 0250 and This two-quarter elective program consists of DIHY 0250 and DTHY 0251 which prepares the dental auxiliary to perform and to utilize four-handed dentistry techniques under the supervision of a licensed dentist. At the successful conclusion of this program the student is eligible to apply for the Ohio Expanded Functions Examination which is required for licensure. Application for this expanded functions program is necessary as enrollments are limited

# MEDICAL LABORATORY TECHNOLOGY

Associate Degree Program

Medical Laboratory Technology, a medically oriented discipline, occupies an essential and responsible position in laboratory medicine. Physicians rely on the laboratory staff and the results of their analyses to aid them in determining the presence and extent of disease, as well as implications pertaining to the cause of disease. They also provide data needed to evaluate the effectiveness of treatment and patient management. Researchers in the medical sciences also depend on the special skills of medically oriented laboratory workers for analyses and observations which are essential to the progress of their research. to the progress of their research.

The Associate Degree Medical Laboratory Technician works under the supervision of a pathologist or technologist and is qualified to perform a wide variety of analytical works on patient specimens in the areas of hematology, chemistry, microbiology, immunoserology, immunohematology, and urinalysis. Individuals must be accurate and conscientious, with manual dexterity and an interest in science, have an inquiring mind, and a recognition of their responsibility for human lives

The Associate Degree Medical Laboratory Technology program is designed to provide basic educational background and the clinical environment in which students can acquire knowledge, skills, and competence to properly perform routine and selected specialized analyses in a clinical laboratory.

The curriculum consists of eight academic quarters, which includes six quarters of general education; general sciences, including clinical laboratory and related subjects; and two quarters of internship in one of the affiliated hospitals.

### Certification

Upon successful completion of this program, the student will receive the Associate of Applied Science degree and is eligible to take the American Society of Clinical Pathologist's Board of Registry Examination to obtain certification as a Medical Laboratory Technician MLT (ASCP) or to take the National Certification Agency for Clinical Laboratory Personnel Examination to obtain certification as a Clinical Laboratory Technician CLT (NCA).

### Accreditation

The MLT-AD program is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association, in collaboration with the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

### **Employment Opportunities**

Positions for certified Medical Laboratory Technicians are available in hospital laboratories, independent laboratories, public health facilities, the armed forces, physicians' offices and clinics, pharmaceutical and industrial firms, research and educational institutions, and as technical and sales representatives for biomedical supplies and instruments.

### **Scholarships**

A Medical Laboratory Scholarship covering two-year tuitions is awarded each year to a high school graduate who demonstrates academic excellence and has been accepted into the Medical Laboratory Technology program.

#### MEDICAL LABORATORY CURRICULUM

Course No.	Course	Class Hrs	Lab Hrs	Cr Hrs
	FIRST QUARTER			
* Math **Chem 012	I Contemporary Writing Skills I Math HIntro. General Chemistry I Prin. of Biology I Med. Tech. Orientation I	5 5 3 4 2	0 3 2 Q	4 4 4 5 1
		19	5	18

### SECOND QUARTER

SECOND GOALLEL			
Engl 0112 Contemporary Writing Skills II Chem 0122 Intro. General Chemistry II ***Biol0115 Human Anat. & Physiology MLTC 0112 Basic Lab. Skills	5 3 4 <u>2</u>	0 3 2 <u>6</u>	4 4 5 <u>4</u>
	14	12	17
THIRD QUARTER			
Chem 0123 Intro. to Organic Chemistry MLTC 0201 Urinalysis MLTC 0212 Clinical Chemistry I MLTC 0209 Hematology I MLTC 0210 Hemostasis	3 2 2 2 1	3 6 6 2	4 3 4 4 1
	10	20	16
FOURTH QUARTER			
BIOL 0235 Microbiology MLTC 0202 Immunoserology MTLC 0211 Hematology II PSYC/SOCI Electives	4 2 2 4	3 3 <u>0</u>	5 3 4
	12	12	15
FIFTH QUARTER			
MLTC 0207 Clinical Microbiology MLTC 0213 Clinical Chemistry II MLTC 0203 Blood Banking MLTC 0204 Parasitology SPCH 0103 Pub. Speaking & Comm.	3 2 2 0 <u>3</u>	6 6 3 <u>0</u>	5 4 4 1 3
	10	21	17
SIXTH QUARTER			
MLTC 0215 Stat Lab. Simulation MLTC 0216 Med. Tech. Seminar MLTC 0217 Case Studies MLTC 0220 Clin. Practicum I PSYC/SOCI Electives	0 1 1 0 <u>4</u>	9 0 0 40 <u>0</u>	3 1 1 4 <u>4</u>
	6	49	13
SEVENTH QUARTER			
MLTC 0221 Clinical Practicum II MLTC 0225 Special Problems in Med. Lab. MLTC 0226 Technical Electives ++	0 2 2	40 0 <u>0</u>	8 2 2
	4	40	12

\*Students may select Math 108, 130 or 201 depending on the results of their placement tests.

NOTE:
1. Only those students who have been officially accepted into the program or received program director approval may take the courses beginning with the MLTC prefixes.

Eligibility for clinical practicum, as well as to continue in the

Medical Laboratory Technology program, requires that students must maintain a 2.000 accumulative G.P.A. and a minimum of "C" in all MLTC courses.

<sup>\*\*</sup> Students who are planning to continue their education toward a baccalaureate degree are advised to register for Chem 141, 142, 143.

<sup>\*\*\*</sup> Students may select the Biol 0290 and Biol 0291 series with the approval of the program director.

### Medical Laboratory Technology (Continued)

### ++MLTC 0226 Technical Electives:

Sp. Topics in Laboratory Instrumentation Sp. Topics in Laboratory Management

Sp. Topics in Quality Control & Computer Sp. Topics in Hematology

Sp. Topics in Clinical Chemistry

Sp. Topics in Immunology Sp. Topics in Immunohematology

Sp. Topics in Microbiology Sp. Topics in Urinalysis

Sp. Topics in Histology

Recommended electives for students who want to take additional hours:

> EDPT 0101 Intro. to Data Processing EDPT 0103 BASIC Language I **BIOL 0225 General Genetics** CHEM 0223 Quantitative Analysis ENGL 0115 Composition & Literature ENGL 0121 Technical Writing MATH 0131 College Algebra II MATH 0150 Elementary Statistics

### OCCUPATIONAL THERAPY ASSISTANT

Occupational therapy is a vital health care service, "occupation", meaning purposeful activity, as the basis for treatment of people with a wide variety of physical, developmental and emotional disabilities.

Occupational therapists and occupational therapy assistants help disabled people of all ages acquire or regain the skills they need to live independent, productive and satisfying lives. They work in hospitals, rehabilitation centers, nursing homes, public and private schools and home health agencies.

schools and home health agencies.

Occupational therapy assistants work under the guidance of occupational therapists. They may choose or construct equipment that helps people to function more independently; they may carry out treatment activities for individuals or groups of patients; and they work closely with patients' families when preparing to return home.

To become an occupational therapy assistant, you must complete an educational program. The majority of these are two-year associate degree programs such as the one at Shawnee State University. The program includes basic academic subjects, human growth and development, understanding the functioning of the human body and occupational therapy principles and techniques. Each program includes at least two months of supervised practical experience in health care centers.

After successfully completing the educational program, the graduate will be eligible to take the national examination to become a Certified Occupational Therapy Assistant. Many states, including Ohio, Kentucky, and West Virginia, also require licensing by their state to practice Occupational Therapy.

#### Accreditation

The program is approved by the American Occupational Therapy Association.

### OCCUPATIONAL THERAPY CURRICULUM

Course No.	Course	Class Hrs	Lab Hrs	Cr Hrs
OTAT 0101 OTAT 0105 Biol 0111 Psyc 0101	FIRST QUARTER (Fall) Intro to Occupational Therapy Survey of Medical Terminology Principles of Biology Principles of Psychology	3 2 4 <u>5</u>	3 0 2 <u>0</u>	3 2 5 <u>4</u>
		14	5	15
OTAT 0202 Biol 0115 Psyc 0173 Socio 0101	SECOND QUARTER (Winter) Disease Pathology Human Anatomy & Physiology Human Growth & Development Principles of Sociology	4 4 4 <u>5</u>	0 3 0 <u>0</u>	4 5 4 <u>4</u>
		17	3	17
OTAT 0102 OTAT 0108 OTAT 0109 OTAT 0110 Engl 0111	Applied Anatomy & Kinesiology	1 1 1 5 <u>4</u>	6 6 3 3 0 0	3 2 2 2 4 4
		13	20	17
OTAT 0204 OTAT 0102 OTAT 0203 Engl 0112	FOURTH QUARTER (Summer) Practicum II (FW I)  Therapeutic Media I OT in Developmental Disabilities Contemporary Writing Skills II	2 1 5 <u>5</u>	6 6 3 <u>0</u>	3 3 6 <u>4</u>
		13	15	16
OTAT 0208 OTAT 0210 OTAT 0205 Spch 0103 Engl 0121	FIFTH QUARTER (Fall) Practicum III (FW I) OT in Physical Disabilities <sup>3</sup> Therapeutic Media II Pub. Speaking/Human Comm. Technical Writing Psychology/Sociology Elective	2 4 1 3 4 17	6 6 6 0 0 0	3 6 3 3 4 22
		17	10	24

OTAT 0212	SIXTH QUARTER (Winter) OTAT Seminar O.T. in Mental Health O.T. in Geriatric Program Planning <sup>3</sup> Therapeutic Media II <sup>4</sup> First Aid	2 3 3 1 4	0 3 3 6 Q	2 4 4 3 <u>4</u>
		13	12	17
OTAT 0220 OTAT 0221	SEVENTH QUARTER (Spring) 5Clinical Application (FW II) 5Clinical Application (FW II)	0 <u>Q</u> 0	40 40 40	6 <u>6</u> 12

<sup>1</sup>Biol. 0290 Anatomy and Biol 0291 Physiology—may be substituted for Biol 0115. and the Math/Science elective if approval is obtained from the Director of Occupational Therapy Assistant.

<sup>2</sup>Therapeutic Media I may be taken during either Spring or Summer

<sup>3</sup>Therapeutic Media II may be taken during either Fall or Winter

<sup>4</sup>Students must have current First Aid Certificate prior to starting Clinical Application (OTAT 0220 & 0221) Spring Quarter. This may be obtained either through HPER 0227 or at another agency.

<sup>5</sup>Students are required to have successfully completed all OTAT and other courses in the curriculum (as indicated by a minimum 2.00 GPA) prior to participating in OTAT 0220 and 0221. OTAT 0220 and 0221 must be completed within 12 months following completion of required courses.

# PHYSICAL THERAPIST ASSISTANT

Physical Therapist Assistants are skilled technical health workers. They work under the supervision of physical therapists to help rehabilitate disabled persons so that they may again lead useful and productive lives. They may use heat, cold, electricity and exercise for the treatment of patients. The program is designed over a seven-quarter sequence. Four quarters include clinical practicums. The program is currently being considered for accreditation and the graduates will be eligible to take the licensing examination.

PHYSICAL	THERAPIST CURRICULUM		AS	SSISTANT
Course No.	Course	Clas Hrs	s La Hr	
Biol 0115 Math 0108	FIRST QUARTER Anatomy & Physiology Allied Health Math or	4	2	5
Engl 0111 PTAT 0111 PTAT 0101	Math 0130 College Algebra I Cont. Writing Skills I Prin. of Phys Therapist Assistant Medical Terminology	5 5 3 2	0 0 0	4 4 3 2
	OFFICE THE TANK THE T	19	2	18
Psci 0105 Psyc 0101 Engl 0112 PTAT 0112	SECOND QUARTER Physical Science Prin. of Psychology Cont. Writing Skills II PTA Procedures I	4 5 5 3	3 0 6	5 4 4 <u>5</u>
	TINDD OLLA DESCRIPTION	17	9	18
Biol 0295 Psyc 0173 Engl 0115	THIRD QUARTER Kinesiology Human Growth & Development Mass Communication Anatomy & Kinesiology	4 4 5 <u>3</u>	0006	4 4 4 5
		16	6	17
PTAT 0113   Spch 0103   PTAT 0202	FOURTH QUARTER Sociology PTA Procedures II Speech P.T. in Physical Dysfunction Clinical Practicum Seminar	5 3 3 1	0 6 0 0 4	4 5 3 3 2
		15	10	17
PTAT 0211 C PTAT 0114 F PTAT 0231 F	FIFTH QUARTER    Inical Practicum     PTA Procedures      Rehabilitation Procedures     PTA Procedures     P	0 3 3 <u>4</u>	12 6 3 0	4 5 4 <u>4</u>
•	IVTU OUADZZE	10	19	13
PTAT 0235 P	IXTH QUARTER hysical Therapy Trends & Admin. Proc. ehabilitation Procedures II linical Practicum II	2 3 0	0 3 <u>12</u>	2 4 4
		6	15	10
PIAI 0213 C	EVENTH QUARTER inical Practicum III FAT Seminar		38 Q	6 2
		2	38	8

<sup>\*</sup>Students must have a current First Aid card prior to enrolling in PTAT 0214. Hper 0227 is not required if the student has a current First Aid card. This can be obtained either through HPER 0227 or at another agency.

# 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 doctors' offices. The responsibility of the radiographer is to produce a radiographic (x-ray) image of the highest diagnostic quality of any designated area of the human body. It is from this image that the radiologist makes his or her interpretations.

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, clinical education, and specialized courses in radiography. The second year of the program consists of additional 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 Technologists.

### Accreditation

The Radiologic Technology Program is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association, in collaboration with the Joint Review Committee on Education in Radiologic Technology.

### RADIOLOGIC TECHNOLOGY CURRICULUM

Course No.	Course	Class Hrs	Lab Hrs	Cr Hrs	
RDLT 0101 Math 0108* Biol 0290 Engl 0111	FIRST QUARTER Radiologic Technology I Allied Health Math I Principles of Anatomy Contempory Writing Skills I	3 5 4 <u>5</u>	6 0 3 <u>0</u>	4 4 5 4	
		17	9	17	
RDLT 0102 RDLT 0200 Psci 0105* Biol 0291	Basic Patient Care	2 3 4 <u>4</u> 13	10 2 3 3	4 3 5 <u>5</u> 17	
	THER OHARTER	13	10	.,	
Engl 0112 RDTL 0103 RDLT 0203 RDLT 0213 EDPT 010	1 Radiographic Exposure 1 Clinical Experience I	5 3 0 2	0 2 2 16 <u>3</u>	4 3 4 2 <u>3</u>	
		13	23	16	
RDLT 010 RDLT 021	FOURTH QUARTER  Radiologic Technology IV Clinical Experience II	3 <u>0</u>	2 <u>24</u>	3 <u>3</u>	
		3	26	6	

Course No.	Course	Class Hrs	Lab Hrs	Cr Hrs
RDLT 0111 RDLT 0105 RDLT 0213 Spch 0103	FIFTH QUARTER Radiologic Physics Radiologic Technology V Clinical Experience III Pub. Speaking & Human Comm.	3 3 0 <u>3</u>	2 0 24 <u>0</u>	4 3 3 <u>3</u>
•		9	26	13
RDLT 0106 RDLT 0112 RDLT 0214 Psyc 0101 Engl 0121	Radiol. & Radiation Protection Clinical Experience IV	3 3 0 5 3	0 0 24 0 <u>0</u> 24	3 3 4 3 16
BULT 013	5 Clinical Experience V Principles of Sociology	3 2 0 5 <u>3-4</u>	0 0 24 0 0	3 2 3 4 <u>3-4</u> 15-16
RDLT 010 RDLT 021	EIGHTH QUARTER  8 Radiologic Technology VIII  6 Clinical Experience VI	13-14 2 0 2	0 32 32	2 4 6

\*Students who are planning to continue their education toward a baccalaureate degree are advised to take Math 0130 and Chem 0121.

\*\*Select one of the following electives:

Psyc 0131 Human Adjustment
Psyc 0173 Human Growth & Development
BMNT 0102 Intro. to Business BMNT 0201 Principles of Management BMNT 0202 Personnel Management BMNT 0241 Labor Relations

or Approval of the Program Director.

# 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 abnormalities associated with the process of breathing. At present the field of respiratory therapy has two levels of practitioners: 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 are called upon to treat duties range from the daily administration of such therapies as oxygen administration, humidification and nebulization, and postural continues. oxygen administration, numidification and nebulization, and postural drainage of lung secretions to the use of highly sophisticated equipment, monitoring devices, and techniques in around-the-clock care of 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 Jahoratories practitioners spend all or part of their time working in laboratories where they help evaluate the type and extent of a patient's illness and the effectiveness of the patient's current treatment. Other practitioners work in specialized areas of health care including 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 Respriatory 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 university 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, graduates are eligible to take the entry-level certification examination administered by the National Board for Respiratory Care. 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 Regents approved the creation of a second year of formal education in respiratory therapy at Shawnee State University 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 admission into the second year of study the applicant must have successfully completed the first four-quarter sequence of study, and received the Certificate of Achievement. 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 Care. Successful completion of these examinations (two) and the entry-level certification examination 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 Master's degree from Ohio University.

### Accreditation

The Respiratory Therapy Technician and Respiratory Therapist Programs are fully accredited by the American Medical Association.

### **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 1940's 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 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.

# RESPIRATORY THERAPY TECHNICIAN/THERAPIST **CURRICULUM**

### RESPIRATORY THERAPY TECHNICIAN **CURRICULUM**

### RESPIRATORY THERAPIST **CURRICULUM**

Course	_	Class Hrs	Lab Hrs	Cr Hrs	Course No.	Course	Class Hrs	Lab Hrs	Cr Hrs
No.	Course	ПІЭ	. 113			FIFTU OHADTED (Summer)			
	FIRST QUARTER (Summer) Medical Terminology	1 2	0	1 3	RpTT 0201	FIFTH QUARTER (Summer) General Studies Electives Pulm. Func. Testing & Cardio-Vasc.	4-5 3	0	4-5 3
RpTT 0101 RpTT 0110 Biol 0115	Basic Patient Care Fundamentals of Respiratory Care I Anatomy & Physiology	3	0 3 3 3	3 4 5	RpTT 0202	Pediatric and Neonatal Respiratory Care	3	0	3
Math 0101	Basic Algebra	4	<u>0</u>	4	RpTT 0212	Cardio-Vascular Anatomy and Pathophysiology	3	0	3
.,,	•	14	9	17	Engl 0121 RpTT 0250	Technical Writing Registry Review (ElecOptional)	3 <u>4</u>	0 Ω	3 <u>4</u>
RpTT 0140	SECOND QUARTER (Fall) Clinical Practice I Physical Science	0	16 3	4 5			16-17	0	16-17
PSci 0105 RpTT 0111	Fund of Respiratory Care II	4	1	4	<b>7</b> : 14004	SIXTH QUARTER (Fall) Anatomy and Physiology	4	3	5 3
RpTT 0121	Cardio-Pulmonary Anatomy and Physiology	<u>3</u>	<u>0</u>	<u>3</u>	Biol 0291 RpTT 0203	Dharmacalagy	3	0	3
		11	20	16	RpTT 0211	Platination & Renal Anatomy & Pathophysiology Clinical Practice IV	3 <u>0</u>	0 <u>16</u>	3 <u>4</u>
PhTT 0113	Care of the Artifical Alfway  Continuous Mechanical Ventilation	0 1 2	24 0 3	6 1 3 <u>3</u>	Apri 0240		10	19	15
RpTT 0122	Pathophysiology	2	Q		RpTT 0222	SEVENTH QUARTER (Winter)  Department Management	2	0	2
		6	27	13	RpTT 0241	Clinical Practice V	0	16	4 4
	FOURTH QUARTER (Spring) (Certificate)				Econ 0101	Principles of Economics I General Studies Electives	4 <u>4-5</u>	0 <u>0</u>	4 <u>4-5</u>
RpTT 0142	Clinical Practice III	0	24	6			40.4	1 16	14-15
-	Pulmonary Rehabilitation and Home Care	1	0	1			10-11	1 10	14-15
RpTT 011!	Pediatric and Neonatal Respiratory Care	2 2	0	2 2		EIGHT QUARTER (Spring) 2 Clinical Practice VI	0	16	4
RpTT 011	S Pulmonary Function Testing		Ó	2	Spch 0103	Pub. Speaking & Human Comm.	3	0	3
Engl 0111	Contemporary Writing Skills I	4	Q	<u>4</u>	Biol 0235	Microbiology	4	3	5
		9	24	15	BRpTT 02	250 Registry Review	<u>4</u>	<u>0</u>	<u>4</u>
	t the first four quarters lea	de to	a cei	tificate of			11	19	16

Completion of the first four quarters leads to a certificate of completion and eligibility for the national certification board examination.

Completion of quarters 1 through 8 leads to the Associate of Applied Science degree and eligibility for the national registry examinations.

NOTE:

Biol 290 & Biol 0291, in combination only, may be substituted for Biol 0115.

Math 0108 or Math 0130 may be substituted for Math Math 0108 or Math 0130 may be substituted for Math 0101.
Students pursuing the A.A.Sc. degree are advised to substitute one of these higher, transferable level courses for Math 0101.
Chem 0121 or its equivalent may be substituted for PSci 0105.
Completion of both courses is highly recommended for students pursuing the A.A.Sc. degree.
Econ 0102 may be substituted for Econ 0101 as a graduation reguirement.

# ASSOCIATE DEGREE NURSING

Associate degree nurses graduating from Shawnee State University 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, doctors' offices and clinics, and selected public health agencies.

\*Felony conviction requires permission from State Board before taking the examination.

### Accreditation

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

# ASSOCIATE DEGREE NURSING CURRICULUM

Course No.	Course	Class Hrs	Lab Hrs	Cr Hrs	
ADNr 010 <sup>-</sup> Biol 0290 *Engl 0111	Prin. of Anatomy	5 4 <u>5</u>	9 3 Q	8 5 4	
ADNr 0102 Biol 0291 Psyc 0101	Prin of Physiology	14 5 5 5	12 9 0 0	17 8 5 4	
ADNr 0103 Psci 0105 Psyc 0173	THIRD QUARTER Nursing III Physical Sicence Human Growth & Devel.		9 12 3 0 15	17 8 5 4	
SUMMER QUARTER - Optional: The following courses may be taken summer or during second year as designated.					
Biol 0235B Soci 0101	Microbiology I or Fourth Quarter Prin. of Sociology	4 :	3	5	
*Engl 0112	or Fifth Quarter Contemp. Writing Skills II or Fifth Quarter	4 ( <u>5 (</u>		4 <u>4</u>	

Course No.	Course	Class Hrs	Lab Hrs	Cr Hrs
**ADNr0201 **ADNr 0202 ADNr 0203 Biol 0235	FOURTH/FIFTH QUARTER Nursing IV ( 5 weeks) Nursing V (5 weeks) Nursing VI Microbiology I	6 6 2 <u>4</u>	12 12 0 <u>3</u>	5 5 2 <u>5</u>
50010101	FOURTH/FIFTH QUARTER Nursing VII Prin. of Sociology Contemp. Writing Skills I	12-wk 6 5 5	15-wl 12 0 0	10 4 4
ADNr 0205 ADNr 0206 ****Required E	SIXTH QUARTER Nursing VIII Nursing IX Elective	16 4 3 4	12 15 0	18 9 3 4 16
*English sequ English 11 English seq **Half-quarter	ence for Associate Degree Nursing: 1, 112, 115, 140 A, B, C, or D; ac juence. Two (2) courses required. courses	dvisor w	ill dete	ermine
HPER 0202 or Soci 0201 or S or Soci 0203 or or Soci 0210	Soci 0202			

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 three quarters must be completed prior to continuing into the second year.

Prerequisites for each quarter are identified under course descriptions.

Students requesting readmission must do so in writing within one quarter of leaving the program in order to obtain the requirements and forms from the nursing department.

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# 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 accident.

The function of the practical nurse is to render personalized bedside patient care and assist with care in complex situations.

Practical Nursing is the entry level into nursing. The curriculum at Shawnee State University is structured to prepare students to take the State Board of nursing examination for licensure.

### 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.

### PRACTICAL NURSING CURRICULUM

Course No.	Course	Class Hrs	Lab Hrs	Clin Hrs	Cr Hrs
	FIRST QUARTER				
PNRs 0101 PNRs 0111 Psyc 0101	Body Struc. & Function Practical Nursing I Prin. of Psychology	4 6 <u>4</u>	2 4 Q	0 13 <u>0</u>	4 10 <u>4</u>
		14	6	13	18
	SECOND QUARTER				
PNRs 0110 ** PNRs 0112 ** PNRs 0115 Soci 0101	Practical Nursing II	2 8 8 <u>4</u>	0 6 0	0 14 14 <u>0</u>	2 6 4
	THIRD QUARTER	22	12	28	18
** PNRs 0113 ** PNRs 0116	Practical Nursing III Practical Nursing VI	12 <u>12</u>	2 2	14 <u>14</u>	8 <u>8</u>
		24	4	28	16
	FOURTH QUARTER				
** PNRs 011	4 Practical Nursing IV	12	2	<u>21</u>	9
		12	2	21	9

<sup>\*</sup>Felony conviction requires permission from State Board before taking the examination.

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 PNRs prefix.

Students requesting readmission must do so in writing within one quarter of leaving the program in order to obtain the requirements and forms from the nursing department.

<sup>\*\*</sup>Half-quarter courses.

## **EMT-PARAMEDIC PROGRAM**

The Paramedic program is designed to prepare persons who can provide life support at the scene of any emergency. The program includes both classroom and hospital experience. In addition to performing functions of an EMT-A, under the revised code of Ohio, the paramedic is further certified to perform the following life support of intensive care techniques: cardiac monitoring, defibrillation, intubation, and administration of appropriate drugs and intravenous fluids. These functions are performed in conjunction with a cooperating licensed medical doctor, doctor of osteopathic medicine and surgery, or a physician advisory board.

### Accreditation

The EMT-A program has received full accreditation from Trade and Industry Education, the organization responsible for certification of Ohio's EMT-A"s. 052480

Accreditation of the paramedic program is pending.

# EMERGENCY MEDICAL TECHNICIAN PARAMEDIC CURRICULUM

Course No.	Course	Class Hrs	Lab Hrs	Clin Hrs	Cr Hrs
Engl 0111 EMTA 0110 Biol 0290B	FIRST QUARTER (Summer) Contemporary Writing Skills I Emergency Victim Care Anatomy & Physiology	5 10 <u>4</u>	0 0 <u>3</u>	0 0 <u>0</u>	4 10 <u>5</u>
		19	3	0	19
ENgl 0112 Biol 0291B EMTP 0101 EMTP 0102	SECOND QUARTER (Fall) Contemporary Writing Skills II Anatomy & Physiology II Paramedic Skills I Paramedic Skills II	5 4 3 2	0 3 3 3	0 0 4 Q	4 5 5 3
		14	9	4	17
RMMT 0201 *EMTP 0103	THIRD QUARTER (Winter) Prin. of Management Paramedic Skills III	4 <u>8</u>	0 <u>3</u>	0 <u>4</u>	4 10
		12	3	4	14
	FOURTH QUARTER (Spring) Elective ** Paramedic Skills IV	3-4 <u>8</u>	0 <u>3</u>	0 <u>4</u>	3-4 10
		11-12	3	4	13-14

<sup>\*</sup>Includes on squad experience by arrangement.
\*\*Should be either Speech, Sociology, or Psychology.

# ENGINEERING AND INDUSTRIAL TECHNOLOGIES

(ASSOCIATE OF APPLIED SCIENCE DEGREE)

Electro-Mechanical Engineering
Instrumentation Technology
Plastics Engineering

### ELECTRO-MECHANICAL ENGINEERING TECHNOLOGY

An electro-mechanical engineering technician is a paraprofessional 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 electromechanical 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 electromechanical 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 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 components with oscilloscope and voltmeter to detect missing parts, loose wires and defective solder joints.

ELECTRIC 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 TECHNICIAN--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	Class Hrs	Lab Hrs	Cr Hrs
Engl 0111 Math 0130 Econ 0101 EMng 0111 EnDr 0101	FIRST QUARTER Contemporary Writing Skills I College Algebra I Economics I Electrical Fundamentals I Engineering Drawing I	5 5 3 1	0 0 0 3 4	4 4 4 4 3
		19	7	19
	SECOND QUARTER			
Engl 0112 Math 0131 Phys 0201 EMng 0101 EMng 0112	Contemporary Writing Skills II College Algebra II Physics I (Mechanics) Electro-Mechanical Devices Elect. Fundamentals II	5 5 3 2 3	0 0 3 3 3	4 4 4 3 <u>4</u>
		18	9	19

Course No.	Course	Class Hrs	Lab Hrs	
Engl 0115 Math 0132 Phys 0202 EMng 0121 EMng 0103	THIRD QUARTER Comp. & Mass Comm. Trig. & Anal. Geometry Physics (Electricity) Electronics I Electro-Mechanical Drawing	5 3 2 1	0 0 3 4 3	4 4 4 3 2
		16	10	17
*	FOURTH QUARTER			
Engl 0121 Phys 0203 EMng 0201 EMng 0202 EMng 0204 EMng 0122	Technical Writing I Phys. (Heat, Light & Sound) Intro. Electro-Mech. Syst. Mechanical Systems Control Devices Electronics II	33222	0 3 3 4 3 3	343333
		14	16	19
Soci 0101 EMng 0211 EMng 0209 EMng 0205 EMng 0206	FIFTH QUARTER Prin. of Sociology Electronic Logic Circuits I Robotics Automatic Control Systems Hydraulics & Pneumatics First Aid and CPR	5 2 2 3 3 2	0 4 2 2 2 0	4 3 3 3 3 2
		17	10	18
Psyc 0101   EMng 0212   EMng 0207   EMng 0208   EMng 0	SIXTH QUARTER Prin. of Psychology Electronic Logic Circuits II Electro-Mechanical Design Electro-Mechanical Systems Industrial Supervision		0 4 5 3 0	4 3 3 3 3 16

Students may elect a different sequence of math with advisor approval.

\*Students enrolled in Electro-Mechanical Engineering Technology or Instrumentation Technology may earn a major in Robotics Technology. Students must have advisor approval and must complete 20 credit hours of the following courses.

### A MAJOR IN ROBOTICS TECHNOLOGY

Robotics course must be taken in numerical sequence beginning with ROBO 0210.

1100000213	Introduction to Robotics (4) Robotic Interfacing (4) Robotic Applications (4) Advanced Robotic Applications (4) Robotic Maintenance-Servicing (4)
	r lobotic Maintenance-Servicing (4)

# INSTRUMENTATION TECHNOLOGY

Instrumentation is the technology of creating, constructing, and maintaining the measuring and control devices and systems which equip the manufacturing plants and research so vital to today's rapidly expanding economy.

Instrument 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, bio-medical 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 instrument technician's work consists of electrical and mechanical tests on various equipment. It requires the ability to visualize the functions or malfunctions of various equipment. The work consists of checking out equipment prior to operation, calibrating equipment in operation, rebuilding equipment using standard replacement parts and calibration standards. The technician will install the equipment in new facilities and will do jobs such as mounting, inter-connecting equipment from blueprints. The technician works with test equipment and requires the use of hand tools in the performance of his or her duties. He or she requires the ability to read instrumentation and schematic diagrams.

The primary functions of the instrumentation technician include pinpointing causes of equipment malfunctions and instituting necessary repairs. Such repairs involve individual pieces of equipment that involves pressure, flow, temperature, motion, force, and chemical composition. Performance of duties requires the use of various test equipment, standards and tools to troubleshoot the equipment in and out of control systems. Reassembles instruments and test assembly for conformance with specifications, using instruments such as potentiometer, resistance bridge, manometer, pressure gauges, and precision voltage sources.

The technician will be involved in working with computer control devices. The modern technician will install control systems that contain micro-processing units that do the control. His or her duty is to install and maintain the units and to do basic programming on the equipment.

### 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 troubleshooting.

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 plants. 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.

# INSTRUMENTATION TECHNOLOGY CURRICULUM

Course No.	Course	Class Hrs	Lab Hrs	Cr Hrs
Engl 0111 Math 0101 IMST 0101 EnDr 0101	FIRST QUARTER Comtemporary Writing Skills I Basic Algebra DC Circuits and Machines Engineering Drawing I *Technical Elective	5 5 2 1	0 0 5 5	4 4 4 3 1-3
		13	10	16-18
Engl 0112 Math 0130 IMST 0102 Phys 0201 EnDr 0100	Physics (Mechanics)	5 5 2 3 2	0 0 5 3 0	4 4 4 2
		17	8	18
Engl 0115 Math 0131 IMST 011 CHem 020 IMST 0103	I Industrial Electronics 2 Process Instrumentation	5 5 2 3 2	0 5 3 5	4 4 4 3
114101 010		17	13	19
Engl 0121 IMST 020 Psyc 010 IMST 021 EMng 02	1 Instrumentation Electronics 1 Principles of Psychology 1 Fluid Mechanics I	3 3 4 3 <u>3</u>	0 6 0 3 2	3 5 4 4 3
		16	11	19
IMST 02: *IMST 02 Econ 010 IMST 02:	212 Fluid Mechanics II 21 Principles of Economics I	3 3 5 <u>3</u>	3 3 0 4	4 4 4 <u>4</u>
114101 02		14	10	16
Engr 020 IMST 02 IMST 02 IMST 02	Instrument Fundamentals II Measurement Principles	3 3 3	0 4 4 3	
•		12	1	1 15

Students may elect a different sequence of math with advisor approval.

\*Technical Electives with Advisor approval:

IMST 0202 Program Control I (4) IMST 0203 Program Control II (4)

Students enrolled in Electro-Mechanical Engineering Technology and Instrumentation Technology (sophomore standing and advisor approval) may earn a major in Robotics Technology. Students must complete 20 credit hours of the following courses to obtain the certificate:

Robo 0210 Introduction to Robotics (4)
Robo 0211 Robotic Interfacing (4)
Robo 0212 Robotic Applications (4)
Robo 0213 Advanced Robotic Applications (4)
Robo 0214 Robotic Maintenance - Servicing (4)

### PLASTICS ENGINEERING

Today, plastics is one of the fastest growing industries in the United States. The plastics industry is rapidly expanding both in volume and variety of product markets. Current forecasts indicate the plastics industry will continue to lead other industries in growth. This growth and projected growth trends are creating positive employment opportunities for the qualified technician.

The Plastics Engineering Technology program prepares the student to become a technician in the multifaceted plastics field. Graduates of this program are prepared to work in any of the three main areas of the plastics industry: Chemical, Processing, or Fabricating.

Students learn in the laboratory and classroom the fundamentals essential for entry-level employment in these industries. All the technical classes involve both labs and lecture that are oriented to the production/supervision environment.

Those who choose this program will be prepared to enter areas dealing with processing, supervision, mold preparation, setup, quality control, production control, fabrication and semi-professional research and development positions.

Job Opportunities

Positions available for the Plastics/Chemical graduate might be:

ENTRY LEVEL SUPERVISION-Supervisory trainee is a commonly acquired position for a graduate who is interested in manufacturing and production in a plastics processing situation.

PROCESS ENGINEER-Assists company engineers in the development of prototype molds and the troubleshooting of current production molds.

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.

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

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.

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.

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 laboratory.

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.

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.

Course No.	Course	Clas Hrs	s Lai Hr:	
Engl 0111 Chem 0121 Math 0130 PEng 0102 PEng 0101	FIRST QUARTER Contemporary Writing Skills I Intro. to General Chemistry I College Algebra I Machine Tools Intro. to Plastics/Chemical Tech	5 3 5 2 3	0 3 0 4 2	4 4 4 3 <u>3</u>
		18	11	18
Engl 0112 Math 0131 EnDr 0101 Chem 0122 Engr 0209	SECOND QUARTER Contemporary Writing Skills II College Algebra II Engineering Drawing I Intro. to General Chemistry II Industrial Supervision	5 5 1 3 3	0 0 5 3 Q	4 4 3 4 <u>3</u>
		17	8	18
Engl 0115 Chem 0123	THIRD QUARTER Comp. and Literature Intro. to Organic Chemistry Trigonometry & Analytic	5	0 3	4 4
	Geometry Technical Elective	5 <u>6-8</u>	0 <u>3</u>	4 6-8
•		19-21	6	18-20
Engl 0121 PEng 0206   Phys 0201	FOURTH QUARTER Technical Writing ntro. to Polymer Science Physics (Mechanics) Technical Elective	3 3 3 <u>5-6</u>	0 2 3 <u>5-6</u>	3 3 4 7
		14-15	10-1	1 17
Engr 0101 F	FIFTH QUARTER Prin. of Economics I First Aid and Safety Physics (Electricity) Fechnical Electives	5 2 3 <u>6-7</u>	0 0 3 <u>5-8</u>	4 2 4 <u>7-9</u>
		16-17	8-11	17-19
Phys 0203 P PEng 0202 P	SIXTH QUARTER Physics (Heat, Light, Sound) Production Control & Planning Undamentals of Process	3 3	3	4 4
	Equip. and Maintenance echnical Elective	2 <u>6-8</u>	0 <u>6-8</u>	2 <u>8</u>
		14-16	12-14	18

Students may elect a different sequence of math with advisor approval.

### Plastics Electives

PEng 0103 PEng 0104 PEng 0105 PEng 0201 PEng 0205 PEng 0205 PEng 0209 PEng 0210	Thermo-Forming (3)
1 Ling 02 10	Properties of Materials (4)

### Chemical Electives

Chem 0202 Process Instrumentation (4)

# ONE-YEAR CERTIFICATED PROGRAMS

The following one-year certificated programs have been developed to allow students to choose courses that will benefit them in seeking employment or upgrading their present position. Before pursuing these programs students should contact a counselor to discuss the ramifications of each certificate and how it might best be applied.

## **AUTOMOTIVE TECHNICIAN CERTIFICATE**

### ELECTRONIC REPAIR TECHNICIAN **CERTIFICATE**

						OLITTI TOTAL			
Course No.	Course	Class Hrs.	Lab Hrs.	Cr. Hrs.	Course No.	Course	Class Hrs.	Lab Hrs.	Cr. Hrs.
AUDI 0201 AUDI 0102 AUDI 0121 *Math 0101	Basic Electricity Prin. of Internal Combustion Engine	3 2 3 5 13	4 5 9 0 18	5 4 6 <u>4</u> 19	IMST 0101 *Math 0125 *Engl 0111 ERTT 0111	Cont. Writing Skills I	3 4 4 3 14	4 0 0 10 14	4 4 4 5 17
AUDI 0111 AUTO 021 *PSYC 010 *Soci 0101	2 Chassis 01 Prin. of Psychology	3 3 5 5 13	6 6 0 0 16	5 6 4 <u>4</u> 18	INJOT 0400	SECOND QUARTER  Basic Accounting A.C. Circuits & Machines Electronic Repair II Pub. Speaking & Human Comm.	4 3 2 3 12	0 4 14 <u>0</u> 18	4 4 5 <u>3</u> 16
AUTO 022	THIRD QUARTER Electrical & Fuel Systems II Automatic Transmissions Service Management Practices Air Conditioning & Brake Systems	3 4 2 15	6 0 <u>4</u> 12	5 4 <u>3</u> 12		THIRD QUARTER  3 Electronic Repair III (Trouble-Shooting/Disassemble) 4 Electronic Repair IV (Reassembly of Major Applicanes) 5 Field Experience	3 3 <u>Q</u>	10 10 <u>12</u> 32	5 5 <u>4</u> 14
	DRAFTING/DESIGN TECH	INICI/	AN				Ü	32	•

### DRAFTING/DESIGN TECHNICIAN CERTIFICATE

# FOREMAN/INDUSTRIAL MANAGEMENT

	0=,133,353				FO	REMAN/INDUSTRIAL MAI	MAGENIE	21 <b>4</b> 1		
Course	0	Class Hrs.		Cr. Hrs.		CERTIFICATE				
No.	Course				Course		Class	Lab Hrs.	Cr. Hrs.	
	FIRST QUARTER				No.	Course	Hrs.	nrs.	ru ə.	
EXST 0105	Keyboarding	0	2	1 3		FIRST QUARTER				
ENDR 0101	Engineering Drawing I	<u>i</u>	2 5 0 0	3 3 4 <u>4</u>	DMNIT 0240	Industrial Relations	4	0	4	
	Basic Algebra 1 Cont. Writing Skills I	1 5 <u>5</u>	ŏ	4	BMNT 0201	Prin. of Management Prin. of Psychology	4 5	0	4 4	
ENGLOTT	1 Cont. ventuing course	12	12	15	*PSYC010 Engr	Elective	<u>3-4</u>	Ō	<u>3-4</u>	
	out off				•		16-17	0	11-12	
	SECOND QUARTER	_	^	4		SECOND QUARTER				
CADD 0101	College Algebra I Mechanical Drawing w/3D	5 1	0 5	4 3	D1 41 T 004		4	0	4	
CADD 010	3 Electronic Schematics & Wiring Diagrams	1	5 <u>0</u>	3	ひとんだし つつつ	1 Labor Relations 2 Personnel Mangement	4 3 <u>3</u>	0 2 0	4 4 3 <u>3</u>	
*PSYC 010	1 Prin. of Psychology	<u>5</u>	Ō	4	PMNT 024	2 Business Communications 31 Human Adjustment	<u>3</u>	ō	<u>3</u>	
		12	10	14	, •, •	•	14	2	14	
	THIRD QUARTER					THIRD QUARTER				
ENDR 010	3 Engineering Drawing III	1	5	3	ENCD 020	og Industrial Supervision	3	Ō	3	
CADD 010	3 Engineering Drawing III 4 Advanced Technical Drawing 5 Mapping w/CADD	1	5 5 0	3 3 3	*PSYC 02	61 Industrial Psychology	3 5 5	ŏ	3 5 4	
*Soci 0101	Prin. of Sociology	<u>5</u>	<u>o</u>	4	SOCI 010 ENGR	1 Prin. of Sociology Elective	<u>6-7</u>	<u>0</u>	<u>6-7</u>	
		8	15	13			19-20	0	18-19	
	FOURTH QUARTER				*These co	ourses are recommended; however	, other cour	rses m	ay be	
CADD 010	06 Structural Design-Floor Plan	1	5	3 3	substitute	d upon approval by the appropriate	advisor.			
CADD 010	07 Piping Drawings 08 Welding Drawings 09 Castings & Mold Design	1	5 5 5	3 3 <u>3</u>						
CADD 010	9 Castings & Mold Design	1	4	<u>3</u>						

12

19

### PLASTICS ONE-YEAR PROGRAM

## SECRETARIAL SCIENCE CERTIFICATE

Course No.	Course	Class Hrs.		Cr. Hrs.	Course No.	Course	Clas Hrs.	s Lab Hrs	Cr. Hrs
	SUMMER QUARTER					FIRST QUARTER			
Math 0100		4 4 2 1 1	0 0 0 5	4 4 2 3 1	*Math 0125	Typing I Basic Accounting Intro. to Business Business Math Business Machines	3 4 5 2	2 4 0 0 0	3 4 3 4 1
		12	6	14			17	6	15
	FALL QUARTER					SECOND QUARTER			
PEng 0101 IMST 0101	Machine Tools Intro. to Plastics/Chemical Tech. DC Circuits and Machines Thermoforming	2 3 2 2	4 2 5 <u>3</u>	3 4 <u>3</u>	*BMNT 0231	Typing II Data Processing Records Management Business Communications Prin. of Psychology	3 2 3 5	2 3 2 2 0	3 3 3 <u>4</u>
	MANTED CLASSIC	9	14	13			15	9	16
DE 0405	WINTER QUARTER					THIRD QUARTER		- F	
EnDr 0102	Injection Molding Testing of Plastics Materials AC Circuits and Machines Blueprint Reading Hydraulics and Pneumatics	<u> </u>	3 5 0 2	3 4 2 3	EXST 0221	Typing III Word Processing I Payroll Record/Accounting Dictation & Transcription	3 3 2 3	2 2 3 2	3 3 3
		11	13	15	*Soci 0101	Prin. of Sociology	4	Ō	4
	SPRING QUARTER						15	9	16
PEng 0103 Extrusion Molding PEng 0209 Fabrication and Manufacturing of		2	3	3	WELDING FABRICATION TECHNICIAN CERTIFICATE				
IMST 0103 IMST 0111	Plastics Products Industrial Electricity Industrial Electronics Process Instrumentation	3 2 2 <u>3</u>	3 5 5 3	4 3 4 <u>4</u>	Course No.	Course	Class Hrs.	Lab Hrs.	Cr. Hrs.
		12	19	18		FIRST QUARTER			
A) Auth B) Lead	OR MANAGEMENT 40-HOUR WOR ority & Responsibility dership Traits	RKSHOP			WELD 0101 WELD 0111 WELD 0113 WELD 0122	Welding Symbols & Prints Basic Oxy-Acetylene Welding Basic Arc Welding Welding Metallurgy	5 2 2 3	0 6 8 <u>Q</u>	4 4 4 <u>3</u>
C) Moti D) Basi	vation Theories c Discipline				•		12	14	15
E) Hand	ding Complaints Management				;	SECOND QUARTER			
1) A 2) H	ing Methods r Relations rbitration andling Grievances				W-11)0112 F	Templet Layout Basic Inert Gas Welding Advanced Arc Welding	4 1 2	0 6 <u>13</u>	4 3 7
	egotiations ounseling						7	19	14
						THIRD QUARTER			
					WELD 0212 F	Advanced Inert Gas Welding Basic Pipe Welding Idvanced Structural Welding	1 1 1	5 11 Z	3 6 <u>4</u>
	•						3	23	13

2

8 8

16

6 <u>6</u>

12

FOURTH QUARTER

WELD 0213 Advanced Pipe Welding WELD 0216 Certification & Testing

<sup>\*</sup>These courses are recommended; however, other courses may be substituted upon approval by the appropriate advisor.

### **DEVELOPMENTAL EDUCATION**

Courses at the pre-college level are offered to prepare students for college-level coursework at Shawnee. These courses are intended for students who have either had no background in a subject (e.g. biology, chemistry, physics) or inadequaate preparation in a subject (e.g. English, math, reading). Students unsure of whether they should take developmental-level courses may request placement testing and advising in the Learning Center.

Math 100A - Fundamentals of Math (4)

This course is designed to provide students with the necessary background in mathematics to take college-level math courses. Basic mathematical concepts and functions include addition, subtraction, division, multiplication, whole numbers, fractions, decimals, and percentages. Students lacking competency in these concepts and functions should take this course before taking higher level math courses.

Chem 100A – Fundamentals of Chemistry (4)

This course is intended for students who have had little or no background in chemistry. This course is especially important for students without high school chemistry who plan to enter one of the allied health programs. Topics and materials are intended to increase students' familiarity with terms and chemical process.

Biol 100A - Fundamentals of 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 who have not had biology on the high school level. Topics and material presented are intended to increase students' familiarity with terms and chemical process.

Phys 100A - Fundamentals of Physics (4)

This course is intended for students who have little or no background in physics. It acts as an introduction to college level physics. Although students are introduced to basic concepts of physics, prime emphasis in the course is placed on mathematical skills necessary for surviving college-level physics courses.

Engl 100A -- Fundamentals of English (4)

This course focuses on basic English concepts including punctuation, grammar, usage, and spelling. Little or no attention is given to composition. Special emphasis is placed on mastering those concepts tested in the English Department's Essential Skills Test (EST). Students with limited knowledge of the basic standard rules of the English language should take this course before taking English 111.

Engl 0090 - Vocabulary Development (2)

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

Engl 0004 – Reading Development (3)

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.

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

### MILITARY SCIENCE

## U. S. ARMY RESERVE OFFICERS' TRAINING CORPS.

The Shawnee State University Reserve Officers' Training Corps Program is open to both men and women. The objective of this program is to produce leaders who are capable of serving as officers in the U.S. Army active and reserve forces. It provides a basic military education which, in conjunction with other college disciplines, develops those attributes essential for successful executive performance. Individuals who successfully complete all of the training will be commissioned in the United States Army, the United States Army Reserve, or the National Guard.

### Curriculum

The ROTC program is divided into two parts--the Basic Course and the Advanced Course. The Basic Course (MS I and MS II) consists of 1000- and 2000-level Military Science classes and is designed primarily for freshman and sophomore students. Students do not incur a military obligation in the Basic Course. Students who complete a minimum of nine credit hours of basic course classes will be eligible for entry into the Advanced Course.

The military science curriculum can be taken in conjunction with any of the four-year university degree programs and may be applied toward graduation requirements as electives.

# **CONTINUING EDUCATION**

Shawnee State University is committed to serve the educational needs of learners of all ages. Through the Office of Continuing Education the doors of educational opportunity are open to more than 5000 lifelong learners annually. An array of non-credit instructional programs are geared to meet a wide range of interests, abilities, and objectives.

Continuing Education strives to meet a variety of educational needs of its publics, both on and off campus. Continuing Education works with business, industry, social agencies, and organizations to develop quality programs to help individuals pursue career endeavors and satisfy professional training needs. Each year the interest of youth is broadened through sport camps and academic camps for the talented and gifted. In an effort to serve special interest groups the Office has actively pursued grants funding and developed programs for displaced workers, small business owners, economically disadvantaged youth, and senior citizens.

For further information about course schedules or program development, contact the Office of Continuing Education.

### **COURSE DESCRIPTIONS**

### **ACCOUNTING**

Acct 100 - Basic Accounting (4)
An introduction to fundamental accounting concepts and procedures as required by small businesses. For indivdiuals desiring one course in accounting only.

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)

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 decision.

Acct 0104 -- Tax Accounting (4)
Prereq. 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 0161 -- Accounting with D.P. Application I (4)
Prereq. Acct. 0100 or with Acct. 0101.
Application of basic accounting procedures to the microcomputer. Emphasizes applications to the IBM microcomputer system.

Acct 0175 -- Financial Statement Analysis (3)
An introduction to the analysis and interpretation of data contained in financial statements prepared in accordance with promulgated accounting principles. Measurement of the firms profit ability, solvency and degree of safety.

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, reorganization, 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.

### \*Denotes classes with Lab fees.

\* Acct 0221 - Cost Accounting I (4
Prereq. Acct 0103
Introduction to cost accounting systems and methods. Cost concepts, classifications, and measurements techniques in relation to their importance in determination, planning and control. Job order and process cost accounting methods.

\* 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 (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

### 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 0261 - Accounting with D.P.Applications II (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

### 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 (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 (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 (4) W.

An introduction to the biological nature of humans. The roots of primate and hominid evolution, speciation, cultural beginnings and the future evolution of humans are examined.

Anth 0250--Principles of Cultural Anthropology (4) F.

How humans have adapted as foragers, hunters, farmers, and industrialists. The diversities of pre-literate and living human societies. Social structure, kinship, religion, ecology are examined in cross-cultural settings.

\*\*Anth 0290A—Topics in Anthropology (4)

\*\*Anth 0290B—Topices in Anthropology (3)

Prereq. Permission of instructor is required.

Topics of special interest to students are investigated under the direction of the anthropology staff. This course may be repeated but not exceed a total of eight hours.

ART

Arts 0101-- Studio Foundations I (5) F No Prereq.

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

Arts 0102 -- Studio Foundations II (5) W No Prereq.

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

Arts 0103 -- Studio Foundations III (5) Sp

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.

0104—Terminology, Tools & Materials for the Graphic Designer (5) F
The goal of this course is to make students familiar with the "building blocks" used by graphic designers. Hands-on experience with many of the tools used in this profession is important. Emphasizes the basics of using T-squares, triangles, technical pens, and demonstrate modern graphic computers. Introduces the many types of materials involved such as rubber cement, acetate, papers, etc.

Arts 0201 -- Art for the Elementary School I (3) F
This course will be concerned with presenting art methods and ideas specifically geared to those teachers in elementary

Arts 0202 -- Art for the Elementary School II (3) W
Continuation of modern art approaches in the elementary

\*\*Arts 0 0205--Graphic Design Production Techniques (4)

The purpose of this course is to familiarize the graphic design student with the various methods of reproducing the finished art work. We will discuss various methods of printing, color separation, and electronic media. Lectures, demonstrations, field trips, and studio work will be involved.

Arts 0210 -- Photography I (4) F. W. Sp. Introduction to art and techniques of photography.

Arts 0211 -- Photography II (4) F. W. Sp. Prereq. Arts 0210.

Continuation of Arts 0210 (offered on demand only).

Arts 0212 -- Photography III (4) F. W. Sp. Prereq. Arts 0211.

Continuation of Arts 0211 (offered on demand only).

\*\*Arts 0215 - Photography for the Graphic Designer (4)

Sp.

The purpose of this class is to provide a basic knowledge of photography for the graphic designer. It will cover the basics of setting up, lighting, and designing photo compositions.

Denotes classes with Lab fees. \*\*Offered on demand only.

Arts 0221 -- Painting I (4) F. W. Sp.
Pre req. 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) F. W. Sp.
Pre reg. Arts 202.
A continuation and expansion of ideas and concepts gained through Art 202.

Arts 0223 -- Painting III (4) F. W. Sp. Prereq. ARt 203.

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

\*\*Arts 0224 -- Watercolor I (4) F

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 concepts gained through Arts 0224.

\* Arts 0231 -- Ceramics I Hand Built (4) F. W. Sp.
The focus of this course will be clay as the craftsman conceptualizes it. Work in all types of handbuild pottery, raku pottery, clays and glazes.

\* Arts 0232 -- Ceramics II Wheel Throwing (4) W. Sp. Prereq. Arts 0231

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

\* Arts 0233 -- Ceramics III Wheel Throwing (4) W. Sp. Prereq. 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 0241 -- Sculpture I (4)

This course is designed to develop the student's ability to conceive and build various medium forms (plaster, clay, wood, metal, etc.) in three dimensions. The aim is to develop an understanding of shapes and mass, acquaintance with tools, techniques and materials for expression.

\*\*Arts 0243 -- Sculpture II (4)
Intermediate sculpture is designed to further a student's skill in three dimensional work. Technical procedures will include advanced woodcarving, clay molding, stone carving, and various direct over armature methods.

\*\*Arts 0243 -- Sculpture III (4)

This will involve studio problems based on concepts applied to various three dimensional materials. Advanced sculpture places special emphasis on the development of individual expression in the student's chosen medium.

\*\*Arts 0245 -- Printmaking I (4)
Pre req. Art 101, 102, 103.
An introduction to basic intaglio techniques. Emphasis will be on mastering techniques so that they can be used to develop personal imagery.

\*\*Arts 0246 -- Printmaking II (4)

Prereq. Arts 245.
An introduction to basic 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)

Prereq. Arts 0247.
Prereq. Arts 0247.
An introductory course employing the range of graphic possibilities in the relief printing process.

\*\*Arts 0251 -- Techniques in Illustration & Design I:

Typography for the Graphic Designer (4) F

This studio course will start with some basic background in type design and theory and will work through its use in modern graphic design. We will cover the use of transfer lettering, type sizing and specification in graphic design.

### \*\*Arts 0252 - Techniques in Illustration & Design II:

Basic Illustration (4)
This studio course will start with design basics and integrate these basics into illustration techniques for the graphic designer. This class will start with black and white graphics and work through color techniques.

\*\*Arts 0253 - Techniques in Illustration & Design III:

Illustration and Specialty Design (4) Sp
This studio course will integrate the knowledge gained in the two previous techniques courses (I&II). We will study basics of package design, fashion design, and industrial design. The last few weeks of this course will be reserved for developing a portfolio of the student's work for use in admission to various junior year programs in those schools offering a Bachelor of Fine Arts in graphic design.

\*\*Arts 0261 - Art History I (Ancient) (4) F

Beginning with the art of prehistoric man, covering Egyptian,
Ancient Near East, Aegean, Greek, Etruscan, Roman and
Early Christian and Byzantine Art.

\*\*Arts 0262 -- Art Hist. II (Medieval & Renaissance) (4)

Beginning with medieval art and architecture in the West, covering Romanesque, Gothic and late Gothic. Emphasis on Italian renaissance sculpture, painting, and architecture through Baroque of 17th centuries.

\*\*Arts 0263 - Art History III (The Modern World) (4) Sp
Beginning with Neoclassism and Romanticism, covering
Realism, Impressionism, Post Impressionism, and Twentieth
Century Painting, Sculpture, Architecture and Photography.

### Arts 0271 - Life Drawing I (4) W, Sp

Prereq. Art 101. Drawing the human figure in various media.

### Arts 0272 - Life Drawing II (4) W, Sp

Prereg. Art 271. A continuation of Art 271.

# Arts 0273 - Life Drawing III (4) W, Sp Prereq. Art 272. A continuation of Art 272.

\*\*Arts 0280A -- Topics in Art (2) F, W, Sp
\*\*Arts 0280B -- Topics in Art (3) F, W, Sp
Study of the various art topics otherwise not available to students.

\*\*Arts 0290 — Weaving I (4) F
Prereq. 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

\*\*Arts 0291 - Weaving II (4) W
Prereq. Arts 290.
Further examination and use of the four-harness loom (2) Off-loom fibre techniques and the design, construction, and use of hand looms (2-4 credit).

\*\*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.

### **ACTIVITY THERAPY**

ATTH 0101 - ACTIVITY THERAPY I (3) An introduction to activity programming. The course is especially designed for individuals who are working with activity programs for the elderly.

ATTH 0102 - Activity Therapy II (3)
Prered ATTH 0101.
A continuation of Activity Therapy I with more emphasis on administration of an activity program and documentation on patient records.

### **NOTES**

<sup>\*</sup>Denotes classes with Lab fees

<sup>\*\*</sup>Offered on demand only.

### **BIOLOGICAL SCIENCES**

Biol 100A -- Fundamental Biology (4) F, W, Sp, S

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 are intended to increase the student's familiarity with terms and chemical

\*Biol 0105 -- Field Biology (3) F

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

\*Biol 0111 -- Principles of Biology (5) F, W, Sp Introduction to principles and concepts of life; emphasis on inter-relationships of structural, functional, reproductive, evolutionary and ecological principles related to cells and organisms. 4 lec. 2 lab.s

\*Biol 0112 -- Plant Biology (5) W, Sp

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) Sp
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. 4

\*Biol 0115-- Human Anatomy and Physiology (5)
A general survey of the structure and function of the human body. Not applicable for students requiring Biol 0290 and 0291. 4 lec. 2 labs.

\*\*Biol 0210 -- Trees and Shrubs (5) F

Prereq. Biol 112.
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) Sp Prereq. Biol 112. Identification, nomenclature, classification of spring flowering plants. Origin and evolution of flora of Ohio. 3 lec. 4 labs.

\*\*Biol 0212 -- Forestry Mangement and Practices (4)

This course investigates the development and the existing practices of modern forestry in the United States. Basic Mangaement practices are discussed with laboratory exercises designed to improve forest management skills. 3 lec. 3 lab.

\*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 society. Labs introduce common and basic ecological techniques. 2 lec. 3

\*\*Biol 0220 -- Wildlife Mangement (4)

Prereq. or concurrent: Field Ornithology
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. 3 lec. 3 lab.

Biol 0225--General Genetics (5) SpPrereq. Biol 111
Principles and concepts of genetics as revealed by classical and modern investigation. 5 lec.

Biol 0226--Genetics Lab (2) Sp
Coreq. or Prereq. Biol. 0225
Principles and concepts of genetics as revealed by laboratory study with the fruit fly, Drosophila melanogaster and human traits where applicable. 4 lab hrs.

\*Denotes classes with Lab fees.

\*\*Offered on demand only

### \*Biol 0235 -- Microbiology (5) F, Sp, S

Prereq. Biol 111 or permission.

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. 4 lec. 3 labs. lec. 3 labs.

Biol 0236-Microbiology Technique Lab (1)
Additional Laboratory experience for the student intending to major in the life sciences. Will introduce student to media preparation, collection of lab data, and its graphic interpretation.

\*Biol 0271 -- Field Ornithology (4) Sp
Prereq. or concurrent or permission of instructor. Ecology or Fundamentals of Biology.

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 done in lab with emphasis on the birds. 3 lec. 3 lab.

\*Biol 272 -- Ohio's Natural Heritage (3) Sp
An exploration of the natural history of Ohio. Arranged field trips will visit all five of Ohio's physiographic regions. 2 lec. 3 lab arranged.

### \*Biol 0290 -- Principles of Human Anatomy (5)

Prereq. Biol 0111 or permission.

An introduction to morphology of cells, tissues and systems of the human body. 4 lec. 3 lab.

### Biol 0291 - Principles of Human Physiology (5)

Prereq. Biol 0290

An introduction to human cellular and systems physiology. 5

# \*Biol 0292 -- Advanced Human Anatomy (3)W,Sp Prereq. Biol 0290

A sectional approach to the anatomy of the human body utilizing cadaver dissection. 1 lec. 4 lab.

Biol 0295 Kinesiology (4) Sp
Prereq. Biol 0115 or Biol 0290
Concentration on skeletal and muscle systems and their functional interplay in the analysis of motion.

\*\*Biol 0299A -- Special Topics in Biology (1)
\*\*Biol 0299B -- Special Topics in Biology (2)
\*\*Biol 0299C -- Special Topics in Biology (3)
\*\*Biol 0299D -- Special Topics in Biology (4)
Prereq. Biol 111 or permission of instructor.
Individual or small-group study, under supervision of instructor, of topics not otherwise available to students.

### **BUSINESS MANAGEMENT**

## BAFT 0101 - Principles of Banking and Finance (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 - Introduction to Commercial Lending (4)

An overview of the commercial lending function. Four sections cover commercial lending overview, the lending process, portfolio mangement, and regulation and business development. Specific contents include the commercial loan customer, types of commercial loans, the loan decision process, cost analysis, control and profitability, and the regulatory and legal environment.

BAFT 0105 - Installment Credit (4)
Procedures, forms, government regulations, delinquency and collections, interest rates, background of installment credit.

BAFT 0106 -- Principles of Bank Operations (4)
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 used from the opening to closing of mortages. 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

BMNT 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.

BMNT 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 critical appraisal of the field of marketing.

BMNT 0201 -- Principles of Management (4)

UZU1 -- Principles of Management (4)
An introductory course into management concepts, organization and principles with a detailed analysis of the mangement functions of planning, organizing, staffing, directing and controlling. Communications, decision making and motivation are emphasized as intrical concepts in performing the management functions.

### BMNT 0202 -- Personnel Management (3)

The philosophy, principles, and methods of personnel management; stressing human resource planning, recruiting, selection, placement, training, evaluation, wage and salary administration and benefit programs.

BMNT 0240 -- 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.

### BMNT 0241 -- Labor Relations (4)

This course is concerned with collective bargaining, contract or labor agreements, workmen's compensation laws, apprentice training, and jurisdictional disputes.

BMNT 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.

REST 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 business and 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. securing a license.

REST 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.

\*Denotes classes with Lab fees. 
\*\*Offered on demand only.

REST 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.

REST 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.

REST 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.

REST 0215 - Special Topics in Real Estate (4)
Special Topics or Seminar in Real Estate (title may vary from 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

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.

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 from instructor.
This course will provide a basic understanding of the retail buyer's responsibilities and functions and will create an awareness of the complexity of the buyer's job. Students will learn how to determine what and how much to buy and how to price merchandise. A good portion of this class is devoted to enhancing the student's merchandising math skills.

RMMT 0225 Marketing Case Studies (4)
Prereq. Marketing or Permission of Instructor.
To give the student an opportunity to report and discuss marketing problems in a group situation. Problems discussed are concerned with areas of marketing management, production planning and development, marketing research, industrial buying behavior, market segmentation, price objectives, advertising, and international marketing objectives, environment.

\*RMMT 0233 -- Sales Promotion (4) Prereq. Marketing or permission.

An in depth study of basic communication theory and principles applied to marketing and promotional problems. The course stresses analysis of source credibility, message structure, appeals, consumer behavior theory involving marketing communication problems. Also included are basic concepts of display, sales promotion techniques and publicity.

### \*RMMT 0235 -- Advertising (3)

Foreign Open Company (3)
Prereq. Marketing
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 in
the creation, planning and management of advertising.

### **BUSINESS LAW**

BusL 0250 -- Business Law I (4)

An introduction to the legal environment of business based on the uniform commercial code including the forms and classifications of law, an overview of the court systems and court procedure, social forces and the law, torts and crimes, and the principles of contract laws.

BusL 0260 -- Business Law II (4)

A continuation of Business Law 0250 including the study of the law covering sales, agency and employment, commercial paper and personal property and bailments.

### CADD (Computer Aided Drafting & Design)

\*CADD 0101 - Introduction to CADD (3)

This course explores the fundamental concepts and commands of a computer aided design system. Topics include: reasons for using CADD; hardware/software of the system; graphical data bases; coordinate systems; productivity techniques; CADD application. The lab will prepare students to operate both two-dimensional and three-dimensional systems. 1 lec. 5 lab. dimensional systems. 1 lec. 5 lab.

\*CADD 0102-Mech. Drawing with 3-D CADD Applications

(3)
This course will consist of an introduction to the specialized areas of drafting and will utilize the CADD system to introduce three-dimensional Descriptive Geometry Applications. Prereq. CADD 0101. 1 lec. 5 lab.

\*CADD 0103-Electronic Schematics & Wiring Diagrams

(3)
This course will consist of making schematic, wiring and printed circuit board diagrams using CADD. Prereq. CADD 0102. 1 lec. 5 lab.

\*CADD 0104 - Advanced Technical Drawing (3).

This course will consist of an introduction to the specialized areas of drafting and an in-depth analysis of the fundamentals of practical descriptive geometry. Prereq. CADD 0102. 1 lec. 5 lab.

\*CADD 0105 - Mapping with CADD (3)

The student will draw plats from deed descriptions using CADD. Routes will be mapped and revised. Prereq. CADD 0104. 1 lec. 5 lab.

\*CADD 0106 - Structural Design and Floor Plans (3) Floor plan layouts, structural details, and revisions will be done using CADD. Each will be plotted. Prereq. CADD 0104.

1 lec. 5 lab.

\*CADD 0107 -- Piping Drawing (3)
A variety of fittings, joints, and valves will be designed into piping assembly drawings. Symbol diagrams will also be made, Prereq. CADD 0104. 1 lec. 5 lab.

\*CADD 0108 - Welding Drawings (3)
Welding fabrication drawings will be made using many weld symbols. Template layout drawings will be made. Prereq. CADD 0104. 1 lec. 5 lab.

\*CADD 0109 - Casting & Mold Design (3)
Castings and molds for pouring castings will be designed using CADD. Prereq. CADD 0104. 1 lec. 4 lab.

\*Denotes classes with Lab fees.

\*\*Offered on demand only.

\*CADD 0110 - Computerized Engineering Design (3)
Prereq. All previous and Sixth Quarter Civil Engineering
Courses, or Equivalent Experience approved by the Advisor.
This course is designed to provide hands-on experience in
computer solutions of technical subjects. Almost all of the
previous and sixth quarter subjects will be studied in their
relationship to the computer solution of specific problems.
This is not a course in basic computer operation, except as
it applies to problem solution. It will deal with the parameters
and technical data that must be fed into a computer in order to
obtain computer solutions of technical problems. In essence,
it will provide a review of almost every technical course the
student is taking or has taken.

### NOTES

### **CHEMISTRY**

Chem 100A - Fundamental Chemistry (4) F,W,Sp,S

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 students planning to enter one of the allied health fields of plastics engineering that have not had high school chemistry. Topics and material presented are intended to increase student's familiarity with terms and chemical

# \*Chem 0121-Introductory General Chemistry I (4) F, W, S1

An introductory course in fundamental concepts of chemistry for non-science major. Topics covered include atomic structure, compound formation, chemical equations, stoichiometry, oxidation-reduction reactions, and nuclear chemistry. 3 lec. 3 lab.

### \*Chem 0122--Introductory General Chemistry II (4)

W, Sp, S2 Prereq. Chem 0121.

Properties of solutions, reactions in solution, acids and bases, equilibrium. 3 lec. 3 lab

### \*Chem 0123--Introduction to Organic Chemistry (4) Sp

Prereq. Chem 0121.

rereq. Chem U121.

A course in fundamental organic chemistry. The study of the major functional groups: Saturated and unsaturated hydrocarbons, alcohols and ethers, aldehydes and ketones, carboxylic acids, amines, carboxylic acid derivatives. The organic chemistry of carbohydrates, lipids, and proteins is covered. 3 lec. 3 lab.

\*Chem 0141--General Chemistry I (4) F, W
Prereq. High school algebra and high school chemistry or
Chem 100A.

An introduction to chemistry through the study of fundamental chemical concepts, atomic structure, periodic classification, mole concept, stoichiometry with problem solving, chemical bonding, and chemical reactions in water solution.

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

### \*Chem 0142--General Chemistry II(4) W. Sp

Prereq. Chem 0141.

An introduction to states of matter, properties of solutions, chemical thermodynamics, and nuclear chemistry.

### \*Chem 0143--General Chemistry III (4) Sp

Prereq. Chem 0142.

An introduction to chemical kinetics, acid-base theory, ionic equilibria, electrochemistry, and coordination compounds.

### \*Chem 0202--Process Instrumentation (4) Sp

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

### \*\*Chem 0205 -- Organic Chemistry I (4) F

Prerea. Chem 0143

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

### \*Chem 0206 – Organic Chemistry II (4) W

Prereq. Chem 0205

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

### \*Chem 0207 -- Organic Chemistry III (4) Sp

Prereq. Chem 0206 Continuation of 205-206. See 205 description. 3 lec. 3 lab...

### \*Chem 0223 -- Quantitative Analysis (5) F

Prereq. Chem 0143

An introduction to methods of chemical analysis by classical gravimetric and volumetric techniques colorimetry with emphasis on solution equilibria and stoichiometric calculations. 3 lec. 6 lab.

### \*Chem 0224 -- Instrumental Analysis I (5) W

Prereq. Chem 0143.

An introduction to methods of chemical analysis by spectophotometry. 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) Sp

Prereq. Chem 0224.

An introduction to methods of chemical analysis by An introduction to methods of chemical analysis by chromotography 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.

<sup>\*</sup>Denotes classes with Lab fees.

### **COMPARATIVE ARTS**

ComA 0101 -- Survey of the Arts (4) F
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

ComA 0102 -- Survey of the Arts (4) W
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) Sp
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.

### DATA PROCESSING

\*EDP T 0101 -- Introduction to Data Processing (3)

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

\*EDPT 0102 -- BASIC and Assembler Progammer (3)

The assembly language instructions and coding techniques are introduced with programs written using auxiliary storage, interrupt processing, and table processing. All programs are tested and thoroughly documented.

\*EDPT 0103 -- BASIC Languages I (3)

Prereq. EDPT 0102 for DP majors or EDPT 0101 for non DP majors. This course provides an introduction to data processing and the programming language BASIC. No prior experience either in programming or using computers is required. Some knowledge of basic algebra is necessary to understand the use of mathematical expressions in the BASIC language. Practical examples and exercises will teach the student the capabilities of BASIC and how to write functional BASIC program.

# \*EDPT 0104 -- BASIC Language II (3) Prereq. EDPT 0103.

This course teaches advanced BASIC programming techniques under the RSTS/E system. Students will learn how to use system function calls and how to optimize file creation and access. Students will be trained to write programs using terminal Input/Output features and to perform interjob communication.

### \*EDPT 0105--COBOL Programming I (4)

Prereq. EDPT 0104.
The student will study in depth the COBOL language. Use of files on disks, print routines, use of terminals, and documentation will be stressed. Many problems will be assigned to move theory into practice.

\*EDPT 0106--COBOL Programming II (4)
Prereq. EDPT 0105.
A deeper study of COBOL. More complex problems will be assigned using tables and various utility programs available from the manufacturer. New instructions and different ways of using them will be examined.

\*EDPT 0107 -- RPG II Language (4)
Prereq. EDPT 0102 for DP majors or EDPT 0101 for non DP maiors.

This is another computer language. It is a fast way to program. Normally used to produce reports for management. All rules of programming apply, but various forms are required to product output and care must be used to fill in exact details.

\*EDPT 0201 -- Systems Analysis & Design (4)
Prereq. EDPT 0104, 0107, 0206.
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 0202 -- Computer Operations Management (3)

Prereq. Two programming languages and sophomore status.

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

\*EDPT 0203 -- Computer Application (4)
Prereq. Two programming languages or department Students will work in groups to do a complete systems proposal, design testing debugging, and implementation.

# \*EDPT 0204 -- Busines Computer Projects II (4) Prereq. EDPT 0203.

Programs will be assigned on an individual basis. Certain commands will be required within the program. Students will be instructed on how to refer to manuals to determine correct use of these commands and what their limitations

\*EDPT 0205 -- Business Data Systems & Comm. (3)

Prereq. one computer language or department permission.

A study of man-machine interactions through teleprocessing and telecommunication systems. Emphasis of current time-sharing 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)
Prerq. DEPT 0103 and EDPT 0107.
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 business problems.

\*EDPT 0207 -- PASCAL Language (4)
Prereq. EDPT 0101 - 0108
This course provides an introduction to the programming language PASCAL. Some knowledge of basic algebra is helpful in understanding the rules that govern the formation and use of mathematical expressions in the PASCAL language. Use of Input/Output statements, loops, subprograms, arrays and files are covered.

\*EDPT 0208--DATA BASE Management (4)
Prereq. EDPT 0107, 0104, 0106, 0206.
A study of data base design, implementation and access using fourth generation programming languages and relational data base.

<sup>\*</sup>Denotes classes with Lab fees.

### **DENTAL HYGIENE**

DtHy 0101A - Radiology I (2)
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, longcone, XCP instrumentation, etc. Theory of the fundamentals of oral radiographic techniques. Regulations and safety precautions, as well as the uses of Xray in dentistry.

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.

General and Oral Histology Embryology (3)
Study of the development of tissues and structures from a histological and embryological basis. Emphasis is on development of tissues of the teeth and the periodontal supporting structures.

\*DtHy 0103 -- Dental Materials (4)

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 - Oral Anatomy I (3)

A study of tooth form, function and occlusion including the supporting tissues of the teeth and oral environment, emphasis on dental vocabulary, terminology, and the relationship of the permanent and deciduous dentition to Clinical Dental Hygiene.

DtHy 0112 - Oral Anatomy ii (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 supply and blood supply. Detailed study of the topographical and functional anatomy of the oral cavity and pharynx.

\*DtHy 0121 - Clinical Dental Hygiene I (4)

The introduction to the profession, including history and development of dental hygiene. The course will familiarize the student with medicodental terminology and deal with the etiology of deposit formation such as plaque, calculus and stains. The principles of preventive dentistry will be discussed in relationship to deposits, dental caries and gingival inflammation. Oral physiotherapy and methods of motivating patients to practice good oral hygiene will be discussed. The importance of complete patient records and screening techniques will be covered. Techniques for prevention of disease transmission will be followed. Guidelines for professional appearance will be outlined. Patient/operator positioning and basic instrumentation principles will be given, followed by lab practice on typodonts for manual dexterity in the control and use of instruments, and then transferring these acquired skills to a living patient.

\*DtHy 0122 - Clinical Dental Hygiene II (4)

This course will be a continuation of Clinic I, providing the student with knowledge concerning the hygienist's role in dental hygiene patient care and the objectives for the practice of dental hygiene care. A reinforcement of general clinic routines for collection of diagnostic data, including intra/extra oral exams and dental/periodontal charting. Skill practices will include reviewing detection of hard and soft deposits, then more in-depth attention to scaling and polishing techniques and periodontal evaluation with probing. Importance of fluorides to dental health and techniques for application will be covered. All skills will be transferred from manikin to patient. manikin to patient.

\*Denotes classes with Lab fees.

\*DtHy 0123 - Clinical Dental Hygiene III (4)

A continuation and application of previously learned techniques and procedures of dental hygiene care and services, performed in the clinic atmosphere as they would be in practice. Advanced skills include desensitization techniques of hard and soft tissues, and principles and techniques for instrument sharpening. Techniques of sequencing treatment planning for individual patients and importance of educating patients in prevention of oral

\*DtHy 0124 -- Clinical Dental Hygiene IV (5)

A continuation of Clinic III techniques and procedures. An indepth study of medical emergencies in the dental office, their treatment and prevention.

\*DtHy 0125 - Clinical Dental Hygiene V (5)

A continuation of clinic procedures and practices with emphasis on the practical patient and patient education. Advanced clinical skills include: Use of radiographs in evaluation and charting, use of the ultrasonic scaler, amalgam polishing, and fabrication of study models. Study in treatment planning for the periodontal disease patient includes subgingival scaling and root planing, curettage and wound healing, and periodontal packs and sutures. Covers topics for the prevention of dental disease through oral health counseling, nutritional counseling, pit and fissure sealants, and nutritional guidance for patients with gingival/periodontal disease. disease.

\*DtHy 0126 - Clinical Dental Hygiene VI (5)
A continuation of clinic procedures with emphasis on nutritional counseling and the trial state board patient. Discussion in ethics, jurisprudence, laws, and the A.D.H.A. structure and how these influence the dental hygiene profession. Study in myofunctional therapy, exfoliative cytology and oral cancer. Career placement is considered through the development of a resume, review of interviewing techniques, and job selection through the exploration of employment opportunities. National board reviews are also included.

\*DtHy 0127 - Clinical Dental Hygiene VII (5)
Complete dental hygiene care involving the use of advanced skills, practice management and independent study are included. Special topics of patient treatment, practice management, and career development are explored.

DtHy 0201 – General and Oral Pathology (3)

An introduction to pathology. Process 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 - Periodontics (3)
A study of the periodontal supporting structures of the teeth.
Etiologies and classifications of periodontal disease are discussed. The treament of periodontal disease is discussed in relation to the etiologies.

DtHy 0203 -- Nutrition (3)

A study of general nutrition and its role in promoting health. Includes composition and functions of nutrients and their digestion and metabolism. Nutritional deficiencies and diseases are covered. The importance of nutrition throughout the life cycle is discussed. The student is exposed to topics such as energy balance, weight control, "health foods", meals on a budget, nutritional labeling, breast feeding, and current concerns in world nutrition. Emphasis is placed on planning putritious diets. nutritious diets.

DtHy 0204 - Pharmacology and Anesthesiology (3)

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 methods 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

DtHy 0206 - Public Health (3)

An introduction to the broad field of public health with emphasis on the development of dental public health programs. A simplified approach to the knowledge of those public health tools needed by the dental professional to assist in designing and operating a dental public health program. Participation in a dental public health project is included in this course. included in this course.

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 students will complete a sufficient number of restorations to qualify them for expanded functions in the dental office under the supervision of a dentist.

#### **ECONOMICS**

Econ 0101 -- Principles of Economics I (4) F, W, Sp Introduction to basic economic issues, terminology, and theory. Macro economics: including national income analysis, business cycles, role of institutions, and economic

Econ 0102 -- Principles of Economics II (4) W, Sp
A study of individual economic decision making theories including a detailed analysis of demand and supply, elasticity, economic cost, various forms of competition, international trade and payments, input factors and income distribution distribution.

#### **EDUCATION**

Educ 0101 -- Introduction to Education (4) F, W, Sp
An introductory study of the broad and complex field of education. Emphasis on professional and personal requirements for successful teaching.

## **ELECTRO-MECHANICAL ENGINEERING**

EMng 0096 - Electro Concepts (4)

A survey course in the basic concepts of electricity and electronics. Basic DC circuits are studied as the concepts of Ohm's Law, resistance, capacitance, inductance, power, and energy are introduced. AC circuits involving reactance, impedance, phasors, and power factors are studied. DC and AC rotating machines are surveyed. A superficial study of elementary solid state electronics is offered. This course is not for Electro-Mechanical majors and is not applicable toward an Associate degree. toward an Associate degree.

\*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.

\*EMng 0112 -- Electrical Fundamentals II (4)
Prereq. 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 (3)
Prereq. EMng 0112 or advisor approval.
A modern introduction to discrete, bipolar solid state electronic devices and basic electronic circuits including small signal amplifiers, transistor biasing, equivalent circuits, electronic unregulated DC power supplies, and special solid state devices

Denotes classes with lab fees.

\*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, unique to transistors, control circuits, regulated DC power supplies, and solid state oscillators.

\*EMng 0201 -- Intro. Electro-Mechanical Systems (3)
Prereq. EMng 0112, 0101, 0121, Concurrent 0122.
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 Systems (3)
Prereq. Math 0132 and Phys 0201 or advisor approval.
A study of the fundamental laws of rpm, torque, and displacement in a wide variety of gearing applications along with the analysis of forces or loads acting upon the system. Analysis of stress and strain, strength of materials, friction, torsion and moment of inertia is made.

EMng 0204 - Control Devices (3)

Prereq. EMng 0122 concurrently or advisor approval.

A study of control devices responding to a variety of inputs.

These include 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 0204, EMng 0122, EMng 0206 concurrently or advisor approval.

advisor approval. A study of complete electro-mechanical open and closed loop analog and digital systems. The microcomputer and programmable controller are used to interface input and output transducers to build complete automatic control systems. Emphasis is placed on the understanding of interfacing feedback signals to the process control.

\*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, 0204, 0205, 0212
concurrently 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.

acustor approval.

Electro-Mechanical systems are analyzed in detail to demonstrate that there are only a few principles involved in extremely complex systems. This course embodies all of the principles which have been considered previously in the program. Thorough understanding of the applied principles is the course. the aim of the course.

EMng 0209 - Robotics (3)

Prereq. EMng 0122, EMng 0202, EMng 0204, and EMng 0205,
EMng 0206 concurrently or advisor approval.
A survey course in Robotics. The course studies the types of industrial robots, control schemes, and applications.

\*EMng 0211 -- Electronics Logic Circuits I (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 include: combinational and sequential logic, printed circuits, counters, registers, decoders, signal converters, and microprocessor based microcomputers.

### \*Denotes classes with Lab fees.

#### **ROBOTICS TECHNOLOGY (Major)**

Robo 0210 -- Introduction to Robotics (4)
Introduction to applications in industry; emphasis on types, classifications, types of motion, economic impacts, and safety.

Robo 0211 -- Robotic Interfacing (4)
Study of hardware and software for connecting a programmable controller or microprocessor to a robotic arm and interfacing to peripheral machines and equipment.

Robo 0212 -- Basic Robotic Applications (4)
In-depth study of low and medium-technology robot concepts, principles, functions, design parameters, and applications with emphasis on developing the technical skills required to specify, install, program and operate point-to-point and controlled path robot systems.

Robo 0213 -- Advanced Robotic Applications (4)

Advanced Robotic Applications (4)
Advanced study and training in high-technology robot operations and applications with emphasis on continuous and controlled path robots, programmable logic control systems, and production welding systems and operations. Extended practice in off-line programmable set-up, adjustment, and operation of robotic work cells and materials handling

Robo 0214 -- Robotic Maintenance-Servicing (4)
Instruction in servicing and troubleshooting robotic and peripheral automated systems; emphasis on mechanics, hydraulics and associated electrical and electronics.

### **EMERGENCY MEDICAL TECHNICIAN-**PARAMEDIC

EMT-A0101 – First Aid & CPR (2)

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

EMT-A 0110 -- Emergency Victim Care (10)

This is the State of Ohio EMT-A course. Instruction involves assessment of patients suffering from various emergency conditions and techniques used by the EMT-A to manage these conditions. Topics include anatomy and physiology, familiarization with emergency vehicles and equipment, examination techniques, CPR, oxygen therapy and the management of emergencies including shock, medical problems, childbrith, fractures, pediatric and environmental emergencies, bandaging and burn care. Successful completion of this course enables the student to take the State of Ohio EMT-A examination.

\*EMTP 0101 -- Paramedic Skills I (5)

O101 -- Paramedic Skills I (5)
This course is designed to take the basic skills 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, esophageal obturator airway insertion, and MAST. This course includes DOT Paramedic Program Modules I (Role of EMT), II (Human Systems and Pt. Assessment), III (Shock and Fluid Therapy), and V (Respiratory System) and the administration of subcutaneous epinephrine for allergic reactions to insect stings.

\*EMTP 0102 -- Paramedic Skills 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 gasses, and radiation, are included. This course 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 XIV (Extrication and Rescue Techniques) and XV (Telemetry & Communication) Communication).

EMTP 0103 -- Paramedic Skills III (10)

This course has an intensive emergency coronary care emphasis. Although much of the emphasis is placed on rhythm interpretation, 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 IV (General Pharmacology), V (Advanced Airway Management), and VI (Cardiovascular System). This course has an intensive emergency coronary care

EMTP 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. Emphasis is also placed on clinical and on-squad experience where the student will be able to interrelate all he or she has learned. This course includes DOT Paramedic Program Modules VII (Central Nervous System), VIII (Soft Tissue Injuries), IX (Musculoskeletal System), X (Medical Emergencies), XI (Obstetric/Gyn Emergencies), XII (Pediatrics & Neonatal Transport), and XIII (Emergency Care of Emotionally Disturbed). Care of Emotionally Disturbed).

#### **ENGINEERING**

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 to prevent of the provider o 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 principle objective is to acquire a basic understanding of fundamental principles of engineering drawing through actual experience in both freehand 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.

\*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 (Note: These courses should be taken in sequence, beginning with Engl 0111.)

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

Students enrolled in programs leading to the Associate of Arts Degree or the Associate Degree of Individualized Studies must complete 2 courses (8 credit hours) from the following courses: English 0111, 0112, 0115, 140A.

In addition, 3 hours of speech 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.

Engl 0004 -- Reading Development (2) F, W, Sp
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.)

Engl 0090 -- Vocabulary Development (2) F, W, Sp Emphasis is placed upon development of skills necessary for building vocabulary.

Engl 0100A - Fundamental English (4) F,W, Sp,S
This is a transitional course for students who feel they have a basic weakness in reading or writing skills or who have been away from classroom work for a number of years and recognize 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.

0111 F,W,Sp,S \*Engi Contemporary Writing

This course introduces students to the demands of and approaches to narration, description, exposition, and argumentation. Key concepts of unity, coherence, language choices, and development are emphasized. Students are asked to write well-developed paragraphs and essays.

SPECIAL REQUIREMENTS: Before students can receive passing grades for English 0111, they must score 65 on the Essential Skills Test, a one-hundred item test covering basic grammatical and sentence structure concepts. Students scoring 50 or below on the first Essential Skills Test will NOT be permitted to take English 0111. They may enroll in English 0100A or work independently in the Learning Center to improve their performance. Students scoring between 51 and 64 will have two additional attempts to pass the test and 64 will have two additional attempts to pass the test during the quarter. However, students who score between 51 and 55 are strongly encouraged to enroll in English 0100A. BECAUSE OF THE IMPORTANCE OF THIS TEST, THE ENGLISH DEPARTMENT STRONGLY RECOMMENDS THAT STUDENTS TAKE THE ESSENTIAL SKILLS TEST IN THE LEARNING CENTER PRIOR TO ENROLLING FOR ENGLISH 0111.

#### ENgl 0112 -- Contemporary Writing Skills II(4)F,W,Sp,S

Prerea. English 0111 or equivalent.

This composition course emphasizes skills in the techniques of library research leading to the writing of a correctly documented research paper of about ten typewritten pages. The course also provides additional practice in the writing of essays using the traditional rhetorical modes, plus the development of the ability to evaluate and respond in writing to published essays.

# Engl 0115 -- Composition and Literature (4) F,W,Sp,S Prereq. 0111 or equivalent.

Prereq. 0111 or equivalent.

This writing course requires that students write essays in which topics are generated by a general study of literary genres. Students will read short stories, poetry, drama, and novels; they will then be required to write about ideas found therein as well as to analyze certain basic aspects of the literary work. The course aims to polish student writing skills, to develop their analytical abilities, and to acquaint them with a wide variety of literary works.

#### Engl 0121 -- Technical Writing (3) F,W,Sp,S

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 OPEN TO LIBERAL ARTS STUDENTS.

\*Engl 0200 - Introduction to Literature (4) Sp

This course introduces the student to the three genres of literature: fiction, poetry, and drama. It emphasizes skills, techniques, and the language of interpretation of literature. It provides students with information which will help them in further literature courses or in other purposeful or pleasurable reading.

#### Engl 0201 -- Introduction to Fiction (4) F

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)

Prereg. 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: 202-B Survey of British Poetry: 202-C Survey of American Poetry: F 202-D Survey of American Poetry:

Part I 4 hrs. Part II 4 hrs. Part I 4 hrs. Part II 4 hrs.

#### \*\*Engl 0203 -- Introduction to Drama (4) F

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.

#### \*\*Engl 0205 -- Comparative Literature II (4) Sp

Prereg. 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) W

Prereq. 4 hrs. above 100.

Selected literary works 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) W,

Sp 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) F,Sp.
Prereq. 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 0240 -- Screenwriting (3

The course will teach the basic elements of writing for the movies with a focus on either adaptation or original screenplays. Students will write a screenplay as well as study professional screenplays.

\*\*Engl 0245 -- Fiction Writing (3)
The course will teach the basic elements of fiction writing.
Students will write several short stories as well as study the works of professional writers.

\*\*Engl 0288 -- Poetry Workshop (3) W
Prereq. Engl 0232.
Poetry Workshop is an advanced course in the writing of poetry. The emphasis will be placed on critiquing the writing of students in the class and on marketing for publication. (Offered winter and summer quarters.)

\*\*Engl 0290A - Topics in English (2)
Study of various topics in English otherwise not available to students.

\*\*Engl 0290B - Topics in English (3)
Study of various topics in English otherwise not available to students.

#### **FRENCH**

\*\*Fren 0111 -- Elementary French I (4) F

Beginning course of a three quarter, first year sequence. Basic grammatical concepts and patterns. Emphasis on development of reading, listening, comprehension, speaking, and writing skills. Basic text and workbook used.

#### \*\*Fren 0112 -- Elementary French II (4) W

Prereq. Fren 0111.
Continuation of Fren 0111. Basic text, workbook, and readings used.

#### \*\*Fren 0113 -- Elementary French III (4) Sp

Prereq Fren 0112.
Continuation of Fren 0112. Basic Text, workbook, and readings used.

# \*\*Fren 0211 -- Intermediate French 1 (4) Prereq. Fren 0113.

Includes an intensive review of grammar and sentence structure, and introduces the student to selected readings in French literature. Oral facility is stressed.

### \*\*Fren 0212 -- Intermediate French II (4)

U212 -- Intermediate French II (4)
Prereq. 0211 or instructor's approval.
Continued intensive review of grammar is given. Sight translation is stressed. Conversational drills include advanced idiomatic expressions.

## \*\*Fren 0213 -- Intermediate French III (4)

Prereq. 212 or instructor's approval.
Advanced vocabulary and sentence structure are stressed. Emphasis is on writing and free composition.

<sup>\*</sup>Denotes classes with Lab fees.

<sup>\*\*</sup>Offered on demand only.

#### **GEOGRAPHY**

Geog 0101 -- Physical Geography (4) F
Systematic survey of earth-sun relationships, land forms, climate, soils and natural vegetation. 4 lec. 2 labs.

Geog 0121 -- Cultural Geography (4) F,W,Sp Systematic survey of settlement, population, and economic activities that are significant to man.

Geog 0130 -- Economic Geography (4) W
Systematic survey of locational economic patterns and their interrelationships.

Geog 0201 -- Environmental and Man (4) F
Geographic survey of environmental changes caused by
man's activities. Focus on pollution of air and water and
destruction of plant and animals communities.

\*\*Geog 0230 -- Urban Geography (4) F,W
Study of city function, patterns, past and current problems
confronting the city including planning, zoning, housing, and urban renewal.

Geog 0242 -- Geography of Ohio (4) Sp
Detailed regional study of physical background, settlement and economic development.

Geog 0243 -- Geography of Appalachia (4) Sp
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**

\*Geol 0101 -- Physical I (4) F
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 associated with each process. 3 lec. 3

\*Geol 0102 - Physical II (4)
Continuation of 101 as a study of the process affecting each of the above including crystallization, mapping, weathering, erosion, transportation of materials, glaciation, and mountain building. 3 lec. 2 lab.

\*Geol 0103 - Historical I (4) Sp.
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.

O201-Common Rocks, Minerals & Indentification 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 0101 -- National Government (4) F
Constitutional basis and development; political processes, structures, and functions of the national government.

Govt 0102 -- National Policy Issues (4) W,Sp Study of the administration and policy-making processes of the American national government in selected areas, i.e., foreign policy, welfare, environment, etc.

Govt 0103 -- The United States in World Affairs (4)

This course introduces students to some major world political, military, and economic problems confronting the United States. The course examines the historical development and current status of these problems.

\*\*Govt 0201 -- Urban Politics (4)

Prereq. 101 or permission.
Impact of urbanization on structure and functions of municipalities; emphasis on utilization of the political processes to resolve community conflict.

\*Denotes classes with Lab fees \*\*Offered on demand only

\*\*Govt 0203 -- Politics in the American States (4)
Prereq. 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 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 regulation;; War on Poverty in Appalachia; politics of taxation in the region.

\*\*Govt 0290 - Pro Seminar in Practical Politics (4)
Structure and operations of American political organizations; techniques of political campaigning.

\*\*Govt 0299A — Current Political Topics (3-4)
Prereq. 12-15 hrs. govt. or permission.
Special topics in selected policy areas, to be announced.

\*\*Govt 299B -- Current Political Topics (4)
Prereq. 12-15 hrs. govt. or permission.
Special topics in selected policy areas, to be announced.

## **HEALTH, PHYSICAL EDUCATION & RECREATION**

HPER - Physical Education Activities (1)F,W,Sp,S Physical Education Activities (1)r,w,sp,s
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 Archery 110-B Badminton 110-C Basketball 110-D Bowling 110-E Condit. & Wt. Train. 110-F Begin. Golf 110-Gintermed. Golf 0111 Advanced Tennis 111-A Begin. Racquetball 111-B Intermed. Racquetball 111-C Adv. Racquetball 111-D Walleyball 111-E Cont. & Wt. Train.Naut 111-F Yoga 111-B Sailing 110-H Caving
110-J Billiard
110-J Billiard
110-K Dance
110-L Canoeing
110-MBegin. Tennis
110-N Intermed. Tennis
110-O Volleyball
110-P Backpacking
110-QCycling
110-R Rock Climbing
110-S Softball
110-T Orienteering
110-U Skiing
110-V Swimming
110-WIntermed. Swimming
110-X Life Saving
110-Y Jogging
110-Z Diving 110-H Caving 111-H Advanced Yoga 111-I Judo 111-J Women's Self-defense 111-O Water Volleyball 111-U Life Guard Training 111-V Fitness Swimming 111-W Swimmercize 111-X Water Safety Inst. 111-Y Adv. Swimming 112 Aerobic Dance/Swim 111-H Advanced Yoga

HPER 0200 - Introduction to Recreation F
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 3 lec. 3

HPER 0202-Personal & Community Health (4) F,W,Sp
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 0203 -- Human Nutrition (4)

A study of nutrients to include sources, composition, function, and metabolism in the human body. The human life cycle is considered in planning appropriate diets.

HPER 0204 - Drugs, Alcohol, and Tobacco (4) F,W,Sp 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) F,W,Sp

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

HPER 0234-Laboratory Experience in Phys. Ed. (2)

Prereq. P.E. Majors.
Observation and research in physical education in the elementary and secondary levels.

HPER 0235 -- Orientation to Recreation Employment(1) 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.

HPER 0236 -- Field Experience In Recreation (2-6)
Designed to provide the recreation student with a supervised work experience while gaining skills and knowledge in the field of recreation.

HPER 0239 -- Athletic Officiating - Football (3) F
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) F
Rules, mechanics, and procedures in officiating. Practice
under actual game conditions. State certification upon
successful completion of state examination. OHSSA fee for certification and books.

HPER 0241 -- Athletic Officiating -- Baseball (3) Sp
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) F,Sp
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 0255 - Aquatic Recreation Leadership (4) S
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. 6 lab.

HPER 0260 -- Outdoor Recreation (4)
Prereq. or concurrent or permission of instructor. Intro. 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.

HPER 0261 -- Intro. to Phys. Education & Health (2) F
Prereq. P.E. Majors/Minors
Lectures, discussion, and visual aids pertaining to scope and content of a professional physical educator.

\*Denotes classes with Lab fees. \*\*Offered on demand only.

HPER 0270 - Physical Education for the Elementary Classroom (4) F,W, Sp

Liassroom (4) r, w, 5p
Lab and lecture experience 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 sections of the intermediate grades. Designed and specific objectives in the intermediate grades. Designed for elementary education majors.

HPER 0281 - Admin. of Intramural Athletics (4)W,Sp 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) F,W,Sp

Prereq. P.E. Majors
Study, observation and research in selected physical education fields. Under the direction of HPER faculty member.

#### HISTORY

Hist 0111 - American History to 1828 (4) (F)
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) W

Jacksonian democracy; territorial expansion; growth of sectionalism; Civil War; reconstruction; impact of expanded Industrial Revolution.

Hist 0113 - American History Since 1900 (4) Sp Progressive movement, WWI: Republican prosperity: the Great Depression and the New Deal; WW II and problems of the cold war era; turmoil and reform in the 1960's: crisis of confidence in the 1970's and renewal in 1980's

Hist 0201 - Western Civilization from Antiquity to the Birth of civilization in Near East; culture of Greece and Rome; establishment of Christianity; formation and evolution of medieval European society; Renaissance. Renaissance (4)

Hist 0202 - Western Civilization from the Renaissance to the French Revolution (4) F
Renaissance; rise of nation state system; Reformation; commercial and scientific revolution; absolutism and constitutionalism; Enlightenment and the French Revolution.

0203 - Western Civilization from 1815 to Present(4)W 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 Furguean empires in Africa and Asia. Hist 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 0201 - Tradition of Great Books (4) F

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 0202 - Tradition of Great Books (4) W Classics studied are from the ancient world, the middle ages, the age of reason, and the Romantic period. See Humn 101 for further description.

Humn 0203 -- Tradition of Great Books (4) Sp

Classics of the ancient world, the middle ages and writings of more recent times including the present are studied. See Humn101 for further details.

#### INSTRUMENTATION

\*IMST 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.

\*IMST 0102--AC Circuits and Machine (4)

Prereq. DC Circuits and Machines
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

\*IMST 0103--Industrial Electricity (3)
Prereq. IMST 0101 and IMST 0102

This course is designed to familiarize the student with the National Electrical Code, to familiarize the student with practice used in industry to installing conduit, conduit fittings, electrical conductors, switching equipment, overload protection and equipment.

IMST 0111--industrial Electronics (4)

Prereq. IMST 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.

IMST 0121 Instrumentation Internship (6)

The student will be involved with an industry for eleven weeks of supervised work experience. Supervisory visits will be conducted by the instructor. There will be weekly evaluations and seminars for critique of the experience. The instructor will be checking with the company regarding the progress of the student. The internship must be directly related to the field of study.

\*IMST 0201--Instrumentation Electronics (5)

Prereq. IMST 0111.

This course is designed to familiarize the student with the I his 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.

\*IMST 0202--Programmable Controllers I (4)
Prereq. IMST 0111 and advisor approval.
The student is introduced to basic industrial control circuits and schemes using the programmable controller as a control device. The student will be instructed on the proper methods of programming the controller for the desired scheme. 5 lab hrs.

\*IMST 0203--Programmable Controllers II (4)
Prereq. IMST 0202.
This is a continuation of Programmable Controllers I. This course will teach the student more advanced control using the controller as a proporational controller. The student will learn the proper methods of interfacing to the programmable controller to the controlled device and peripheral devices. 5 lab hrs.

IMST 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.

IMST 0212--Fluid Mechanics II (4)

Prereq. Math 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 number deliveries.

sizes, pressures developed, and pump deliveries.

### \*Denotes classes with Lab fees.

IMST 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.

IMST 0222--Instrument Fundamentals II (4)
Prereq. IMST 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

IMST 0223--Measurement Principles (4)

This course is to teach the student the industrial methods of measuring pressure, temperature and flow with various types of gauges and other devices. It includes the basic theory of operation, construction, installation, normal care of gauges, manometers, thermometers and other precision equipment.

IMST 0224--Industrial Control I (4)
Prereq. IMST 0221, 0211.
The student is introduced to basic industrial control circuits and schemes. This course includes pneumatic, hydraulic, electrical, and electronic control.

IMST 0225--Industrial Control II (4) Prereq. IMST 0224

This course will be to teach the student on the procedures of using a process control computer to configure eight PID loops and sequential operations.

#### **JOURNALISM**

\*\*Jour 0105--Introduction to Mass Communications (4)
Introduces 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.

\*\*Jour 0231--News Reporting (4) F,W,Sp
Prereqp. Typing proficiency and passage of English

proficiency test.

Methods of gathering and evaluating news and writing typical news stories. Practice work covering assignments and preparing copy.

Jour 0289--Magazine Feature Writing (4)

The course covers writing and marketing freelance magazine articles of various types including personal, narrative, informative, how-to, historical, personality sketch, investigative, and interpretative. Students learn how to generate ideas, get photos, propose article ideas to editors and survey regional and specialty magazine markets.

Jour 290A--Topics in Journalism (3)

Study in various topics in journalism otherwise not available to students.

Jour 0290B-Topics in Journalism (3)

Study in various topics in journalism otherwise not available to students.

#### **LINGUISTICS**

Ling 270--The Nature of Language (5) F, Sp

Nontechnical investigation into basic nature of human language.

<sup>\*\*</sup>Offered on demand only.

#### **MATHEMATICS**

Three Track System in Mathematics for **Engineering Technology Students** 

Engineering technology students who have not had high school algebra or who have a low ACT score in mathematics should take Math 0101 to give them background for the required sequence of Math 0130, 0131, and 0132. Students required sequence of Math 0130, 0131, and 0132. Students who have had high school algebra and geometry and an average ACT score in mathematics should take Math 0130, 0131, and 0132. Students who have taken three or four years of high school mathematics and have an ACT score above the 75th percentile of the national norm may have prerequisites for Math 0130, 0131, 0132, or 0201 waived, with the second of the math chapternate and start at the with the approval of the math department and start at the level appropriate for them.

Students who are unsure of their mathematics aptitude should see the Director of Developmental Education, Business Annex, to make arrangements to take a mathematics assessment test before enrolling in a mathematics class. Interpretation of test scores and decisions about course placement will be done in conjunction with math faculty. Prerequisites should be followed for courses in sequence.

Math 0100A - Fundamental Math (4) F,W,Sp,S

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 linear equations, graphs and formula rearrangements. (Does not count toward a degree).

\*\*Math 0100B -- Math Appreciation (4) F
Offered on demand only.
A course for students who do not need mathematics as a tool. 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) F,W,Sp

This course is for students with a good background in arithmetic but little or no background in algebra. It includes operations with integers, numbers, properties, scientific notation, solving and graphing linear equations and inequalities, operations with polynomials, laws of exponents, and laws of radicals.

Math 0108 - Allied Health Math I (4) F
Basic properties of Integers, Basic Algebra, Linear equations one-unknown, Exponents and Logarithms, Right Triangle Trigonometry, Graphing Linear Equations.

Math 0109 - Allied Heatih Math II (4) W

Ratios and Proportions, Arithmetic and Geometric Progressions, Quadratic Equations and Graphing Quadratic Functions, Basic Statistical Concepts, Introduction to micro-computer programming.

Math 0120 - Elementary Topics in Math I (5) F,Sp

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) W
Prereq. 2 yrs. h.s. math., including algebra.
Basic algebraic work with equations and inequalities in one and two unknowns; nonmetric and metric geometry; coordinate geometry; introduction to statistics and probability.

Math 0125 - Business Mathematics (4) F,W, Sp
Brief review of arithmetic with emphasis on estimating answers. Simple algebra skills. Applications in the personal and business world including reconciliation of a checking account, markup, real estate taxes, depreciation, payroll, and payroll deductions, inventory valuation, and simple and compound interest on investments and loans. Use of calculators and microcomputers.

Math 0130 - College Algebra I (4) F,W,Sp Prereq. Mastery of at least 1 year of h.s. algebra or Basic Algebra.

Algebra.
Integers; Powers of Ten; Scientific Notation; Review of Algebraic Expressions and Operation; 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 Vector.

Math 0131 - College Algebra II (4) F,W,Sp
Prereq. Mastery of College 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 Triangle Solutions.

0132 -Trigonometry & Analytic Geometry Math

(4)F,W,Sp
Prereq. Mastery of College Algebra I & II or h.s. equivalent.
Solving inequalities, linear and quadratic; Graphing
Trigonometric Functions; Polar Coordinates; Trigonometric
Indentities; Trigonometric Equations; A study of the basic properties of the conic sections.

Math

Behavioral Sciences (4) F,W
Prereq. 3 yrs. of h.s. math or Algebra I and either Govt. 101,
Psy. 101, or Soc. 101. (Not for mathematics 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.

Math 0155 - Business Statistics (4) F,W,Sp,S

Prereq. Math 0101 or permission.

An introduction to the vocabulary, concepts, formulas, and presentation of statistics as applied to business. Measures of central tendency and dispersion; probability applied to joint probability tables and Bayes Theorem; probability distributions with emphasis on Binomia, Poissan and Normal; sampling practices and theory; interval estimation and hypothesis testing. Calculator and computer use. This course is continued in QMET 201.

Math 0201 - Calculus I (5) F,W,Sp

Prereq. 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) F,W,Sp

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) Sp

Prereq. Calculus II.
Sequences and series; Taylor series; vectors; vector calculus; functions of several variables; partial derivatives; gradients; multiple integrals.

### **MEDICAL LABORATORY TECHNICIAN**

MLTC 0111 --Medical Laboratory Orientation I (1)
Introduction to the profession of Medical Laboratory Technology including history, philosophy, development, educational requirements, current trends, role and responsibilities of the medical lab technicians as well as ethics, employment opportunities, certification and licensure, professional organizations, and interpersonal relationships. Medical terminology, bookkeeping and lab safety are also presented. 3 lec and lab combined.

\*MLTC 0112 -- Basic Laboratory Skills (4)

Introduction to basic laboratory procedures and techniques. Emphasis will be placed on phlebotomy, microscopy, spectrophotometry, quality control, pipetting, use of centrifuges, analytical balances and other basic laboratory instruments. Laboratory mathematics, particularly in solution preparations, dilution, calculation of concentrations, pH, standard curve, and basic statistics are included. 2 lec.

\*MLTC 0201 -- Urinalysis (3)
Physical, chemical and microscopic examination of urine.
Theory and applications of various laboratory tests in relation to kidney function. Brief discussion of other important body fluids. 2 lec. 3 lab.

## \*MLTC 0202 -- Immunoserology (4)

Prereq. Biol 0235A.
Introduction to basic immunology with emphasis on the principles and applications of serological techniques in diagnostic tests. 2 lec. 3 labs.

# \*MLTC 0203 -- Blood Banking (4) Prereq. MLTC 0202.

Prereq. MLTC 0202.

Lectures and laboratory procedures in blood banking. Principles of blood grouping and human blood groups inheritance. Routine procedures for pretransfusion testing antibody screening and identification. 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. 2 lec. 6 lah

## \*MLTC 0204 -- Parasitology (1)

Prereq. Biol 0235A.

Introduction to medically important human parasites. Emphasis will be placed on collection, preservation and laboratory identification. 1 lec. 2 lab.

## \*MLTC 0207 -- Clinical Microbiology (5)

Prereq. Biol 0235A

Diagnostic procedures for identification of medically important bacteria and fungi. Emphasis will be placed upon morphological, cultural, biochemical and serological characteristics of various pathogenic bacteria and fungi. 3 lec. 6 lab.

## \*MLTC 0209 -- Hematology I (4)

Basic laboratory methods in hematology, including cell counting, hemoglobinometry, cell morphology, etc. Detailed studies of blood cell maturation and development, abnormalities in peripheral blood and in bone marrow with emphasis on red cells and anemias. 2 lec. 6 lab.

## \*MLTC 0210 -- Hemostasis (1)

Study of hemostatic mechanism and hemorrhagic disorders as well as their laboratory evaluations. 3 lec. and lab. combined.

\*MLTC 0211 -- Hematology II (3)
Prereq. MLTC 0209.
Continuation of Hematology I with emphasis on white cells, leukemias and special procedures in the study of blood diseases. 2 lec. 3 lab.

\*MLTC 0212 -- Clinical Chemistry I (4)
Principles, practices and techniques of analyses of chemical components in serum, as well as other body fluids are studied. Instrumentation associated with specific analyses will be introduced. Emphasis will be placed on the specific chemical reactions and/or analytical principles, sources of error, quality control, practical applications and theoretical aspects of the above procedures as related to normal and abnormal states. 2 lec. 6 lab.

\*MLTC 0213 -- Clinical Chemistry II (4)
Prereq. MLTC 0212.
Continuation of Clinical Chemistry I, MLTC 0212, 2 lec. 6 lab.

\*MLTC 0215-Stat Lab Simulation (3)

A simulated stat laboratory environment is designed for students to participate in performing various stat laboratory tests in chemistry, hematology, urinalysis, blood banking, coagulation, and microbiology. Students are required to organize their work assignments, complete the assignment efficiently, and monitor quality control within established criteria. 9 lab.

\*MLTC 0216-Medical Technology Seminar (1)
Issues and trends in Medical Laboratory Technology,
government regulations, professional development,
employment opportunities, resume' writing and job-seeking
skills will be discussed. 1 lec.

\*MLTC 0217-Case Studies (1)
In conjunction with the MLTC 0215, the student will present the case studies assigned in MLTC 0215 to interpret and evaluate the clinical correlations and significance of the lab

\*MLTC 0220 - Clinical Practicum I (4)

Prereq. Completion of all required MLT courses with a minimum of "C" in each course and a minimum of 2.000 accumulative grade point average. Eighteen weeks of internship providing a practical application of the skill and knowledge learned during the previous quarters of the curriculum. Students are assigned to accredited hospital laboratories as trainees. The rotation schedule consists of four weeks in Hematology-Coagulation; four weeks in Chemistry; four weeks in Immunohematology-Immunoserology; four weeks in Microbiology; and two weeks in Urinalysis. in Urinalysis.

# MLTC 0221--Clinical Practicum II (8) Continuation of Clinical Practicum I.

MLTC 0225-Special Problems in Med Lab (3)
Review of problems and progress during clinical practicum. Students are required to keep a daily log of the scope and degree of activities in the laboratory. The logbook will be filed with the department at the end of the clinical practicum. Students are also required to participate in laboratory inservice activities (and/or professional meetings if possible). Review exercises during the clinical rotation and a four-day Registry Exam review at the end of the internship are included.

MLTC 0226--Special Topics in Med Lab (2)
Individualized study of Medical Laboratory Technology in a selected area of interest: laboratory instrumentation, lab management, quality control, laboratory computer, hematology, clinical chemistry, immunology, immunohematology, microbiology, and histology. The selected topic has to be approved by the faculty member and the clinical coordinator. The student is required to do library and/or laboratory studies, and a typewritten report on the topic will be submitted to the department before the end of the clinical practicum. practicum.

<sup>\*</sup>Denotes classes with Lab fees. \*\*Offered on demand only.

### **MILITARY SCIENCE**

MILS 0101 Basic Course Military Science I (2) F,W

Provides an understanding of the military and of useful military subjects to include leadership, customs/traditions of the service, principles of war, National Defense Establishment, organization and role of the Army.

MILS 0202--Basic Course Military Science II (2) Sp

Prereq. Six hours of Military Science credit or departmental

permission. Participation Participation in a management/leadership simulation program, introduction to Army Physical Training Program, participation in first aid/CPR program, and continuation in map and aerial photograph reading.

MILS 0210 Land Navigation (2) Sp Study of military land navigation to include military map reading, use of the compass, land navigation, terrain association techniques, and orienteering.

MILS 0211-0212 Ranger Operations and Techniques (2)
Provides an overview of U.S. Army Ranger history,
organization, and mission. Small unit tactics, leadership,
patrolling techniques, marksmanship, rappelling, and land navigation.

MILS 0213-0214 Military Drill and Ceremonies (2)
Provides an understanding and practical experience in military drill, color guards, and ceremonies.

0216--Military Equipment, Weapons and Marksmanship (2)

Provides an opportunity for practical experiences in the use and handling of military weapons and equipment with an emphasis on marksmanship training.

MILS 0217--The Soviet Armed Forces (2)
An introduction to the Soviet Armed Forces, the organization, doctrine, equipment, and the soldier. An insight into the positive and negative influences that affect the Russian soldier of today.

MILS 0218--Military Tactics (2)

An introduction to weapons capabilities, the principles of war, and military organizations. The study of military history as a key to professional development.

MILS 0219--The Military as a Profession (2)

An examination and evaluation of a career as an Army officer. The types of duty, pay and benefits, professionalism, responsibilities, promotions, travel, and education.

MILS 0220--Military Leadership (2)
An examination of successful leadership traits, styles, and techniques as they relate to the development of effective military organizations.

MILS 0221--Army Physical Readiness Program (1)
A physical training program consisting of Army conditioning drills, guerrilla exercises, and grass drills.

MILS 0251--ROTC Basic Camp. (3) (non-resident) S

This course is a six-week camp consisting primarily of applicatory training conducted during the summer at Fort Knox, Kentucky. It is designed to replace the first two years of on-campus ROTC training. Students who successfully complete the course are eligible to enter advanced military exists training with departmental permission. science training with departmental permission.

MILS 2800-2803 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.

#### MUSIC

Musi 0120-Introduction to Music Literature (3) F

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.

Study of selected works from Baroque style periods through readings, tapes, recordings and other media.

\*\*Musi 0122--Introduction to Music of the Classical & Romantic Periods (3)

Prereq. 120 or permission.

Study of selected works from the Classical and Romantic style periods through readings, tapes, recordings, and other

\*\*Musi 0123 - Introduction to 20th Century Music (3)

Prereq. 120 or permission.
Study of selected works of 20th Century, both traditional and electronic, through readings, scores, tapes, recordings, and other media.

Musi 0160 - Fundamentals of Music (3) F,Sp

Principles of notation, meter, major and minor scales, rhythmic and melodic reading, singing and keyboard.

Musi 0161 - Music for the Classroom Teacher (3) W Prereq. Music. Fund. with minimum grade of C.

Methods of teaching elementary music, with emphasis on singing, playing instruments, and rhythmic body movements.

\*Musi 0170A,B,C--Class Voice (3 qtrs., 1 cr.Hr.per qt.)

F,W,Sp

Prereq. Music Reading Must be taken in sequence or by permission.

Basic techniques of voice production; breathing, diction, projection, tone-color, and interpretation.

\*Musi 0180 A,B,C -- College Chorus (2)F,W,Sp Prereq. Permission of instructor (audition); 4 lab hrs.

Musi 0181 - College Band (2)

Prereq. Permission (audition) 4 lab hrs.

\* \*\*Musi 0185 -- College Ensemble (2)
Prereq. Permission of instructor (audition) 4 lab hrs.

Musi -0230 -- Music - Theater (3)
Participation in selected musical theater projects.
Participation may be through production or performance.

\*Musi 0270 A,B,C—Intermediate Voice (1)
Prerequisite: Permission of the instructor.
Continuation of the 170 series.

\*Musi 0280 A,B,C-- Intermediate Chorus (2)
Prerequisite: Permission of the instructor.
Continuation of 180 series.

\*\*Musi 0290A--Topics in Music (2)
Study of various music topics otherwise not available to students: folk and country music, rock forum, etc.

\*\*Musi 0290B--Topies in Music (3)
Study of various music topics otherwise not available to students.

<sup>\*</sup>Denotes classes with Lab fees.

<sup>\*\*</sup>Offered on demand only.

#### **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

\*ADNr 0101-Nursing I-Fundamentals I (8)
Prereq. Admission to the Associate Degree Nursing program. Introduction to the Associate Degree Nursing program. Introduction to the use of nursing process system to enable individuals to maintain or regain ability to meet daily living needs regardless of age. Emphasis will be placed on the assessment components of the nursing process. Fundamental skills and related scientific principles of nursing are presented. Laboratory practice provides the opportunity to develop beginning skills in both technical and interpersonal aspects of nursing. 5 lec. 9 lab.

ADNr 0102--Nursing II--Fundamentals II (8)

Prereq. 2.0 average or better in courses required for fall quarter of first year. Development of basic nursing skills will be continued. A beginning study of medical-surgical nursing concepts relevant to all age groups will be presented. Utilization of all components of the nursing process is introduced.

**ADNr** 0103--Nursing Ill--Nursing of Adults & Children I

(8)
Prereq. 2.0 average or better in courses required in winter quarter of first year. Focuses on implementing the nursing process in meeting basic needs of the adult or child experiencing stressors related to safety and security, activity and rest, and sexual role satisfaction. Further development of technical skills will be included. 4 lec. 12 lab.

ADNr 0201 -- Nursing IV-OB Maternal-Newborn Nursing

Applies the nursing process in the study of the normal aspects of the maternal cycle and the normal, newborn infant. Common recurring stressors related to the maternalnewborn cycle are presented. Skills needed to provide family-centered nursing in normal and stress situations will be introduced. 6 lec. 12 lab. (5-week course)

ADNr 0202 -- Nursing V-Mental Health & Illness (5)
Presents concepts of mental health and selected deviant emotional and mental responses to stress. Provides the student with the opportunity to increase self-awareness and develop beginning skills in the use of self. Application of the nursing process in providing nursing care for clients with specific behavior patterns is included. 6 lec. 12 lab. (5-week course

ADNr 0203 -- Nursing VI - Trends (2)
Concerns of nursing, past, present, and future are explored.
Relationships of technical nurse to health professions and community are considered. Future personal development of individual technical nurses is discussed. Legal and ethical implications for nursing practice are examined. 3 lec. 0 lab.

ADNr 0204 -- Nursing VII-Nursing of Adults & Child. II

(10)
Applies the nursing process in caring for adults and children experiencing stressors affecting oxygen transport and fluids and electrolytes balance 6 lec. 12 lab.

ADNr 0205 -- Nursing VIII-Nursing of Adults & Child. III

(9) Prereq. ADNr 0201, 0202, 0203, 0204

Systematically apply the nursing process in caring for groups of patients. Synthesizes previous knowledge for utilization of the nursing process with adult and child clients experiencing stressors affecting nutrition and elimination. 4 lec. 15 lab.

ADNr 0206 -- Nursing IX - Nursing Seminar (3)

The knowledge base essential to the practice of nursing is enlarged to include the role of the technical nurse as a member of the health team. A theoretical and practical approach to assessment and setting nursing care priorities will be explored. Transition from student role to graduate role will be explored. 3 lec. 0 lab.

#### **NURSING - PRACTICAL**

PNRs 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

PNRs 0110 - Nutrition (2) Prereq. LPNr 0101 & 0111

This course is designed to introduce basic nutrition principles to the student practical nurse. Included are the sources and contribution of the various nutrients and the importance of nutrition in health. Diet therapy is introduced by way of modifying a normal diet to meet specific dietary needs.

\*PNRs 0111 -- Practical Nursing 1 (10)

The course is an introduction to the care of the patient with emphasis on the basic nursing principles and skills commonly employed at the bedside. The fundamental, intellectual, interpersonal and psychomotor abilities necessary for health maintenance in the health care system are emphasized.

PNRs 0112 – Practical Nursing II (6)
Prereq. 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. The use of the nursing process and importance of correct documentation are emphasized for high quality patient care in the implementation of nursing skills. Specific medical/surgical conditions are studied.

PNRs 0113 — Practical Nursing III (8)
Prereq. LPNr 0110, 0112, & 0115
Medical/Surgical nursing is the focus. Individualized care designed to meet a particular patient's needs is emphasized. Included in this course are the concepts of safe handling and administration of medications.

PNRs 0114 - Practical Nursing IV (8)

Prereq. LPNr 0113 & 0116 This course is a continuation of Practical Nursing III with additional units to complete basic medical-surgical theory for the beginning practical nurse. Principles of diet therapy and drug therapy are integrated throughout medical-surgical nuršina

PNRs 0115 - Practical Nursing V (6) Prereq LPNr 0101 & 0111

This course examines the stages of growth and development through the childhood years. It envelopes the historical changes in pediatric nursing, the common problems/disorders of each state of development, as well as basic needs pertinent to these stages. It is the goal of this course to provide to students, on completion, the ability to plan appropriate nursing interventions for a child of any age.

PNRs 0116 - Practical Nursing VI (8) Prereq. LPNr 0110, 0112 & 0115.

Prereq. LPNr 0110, 0112 & 0115.

This course explores family-centered maternity/newborn care. It emphasizes individualized care noting family rights/responsibilities. It envelopes the historical changes in maternity care, basic anatomy and physiology of the reproductive system, the antepartal, intraparta, and postpartal family in the normal pregnancy, the newborn, as well as problems/disorders associated with each stage of pregnancy. It is the goal of this course to provide to students on completion the ability to give appropriate students, on completion, the ability to give appropriate nursing interventions for a family during any stage of pregnancy, either normal or complicated.

<sup>\*</sup>Denotes classes with Lab fees.

<sup>\*\*</sup>Offered on demand only.

## OCCUPATIONAL THERAPY ASSISTANT

### OTAT 0101-Intro. to Occupational Therapy (4) F

Prereq. Enrollment in OTAT Program.
Introduction to the profession of occupational therapy, the roles and functions of occupational therapy personnel, the areas of occupational performance and the theoretical basis of using goal-directed activities.

\*OTAT 0102--Therapeutic Media I (3) Sp, S
Prereq. OTAT 0202.
Introduction to the analysis and therapeutic application of activities. Includes skill development in selected activities, instruction of peers in an activity, and participation in proper care and maintenance of equipment and supplies.

OTAT 0105-Survey of Medical Terminology (2) F
Prereq. Enrollment of OTAT program.
An introduction to medical terminology commonly used in health occupations. Emphasis will be on prefixes, suffixes, root words, anatomical points of reference, abbreviations and explain and symbols.

# OTAT 0106-Occupational Therapy in Geriatric Program Planning (4) W Prereq. OTAT 0210

Introduction to and application of occupational therapy in the treatment of the older adult. Emphasis is on developing and implementing both activity and rehabilitative programs in agencies serving the elderly.

# OTAT 0108-Practicum I (2) Sp (other quarters by arrangement) Prereq. OTAT 0202

rereq. UTAT 02/02
Supervised clinical experience under the direction of qualified personnel in a variety of settings including hospitals, day care centers, MR facilities, mental health facilities, schools, nursing homes, and convalescent centers. Emphasis will be on developing professional communication skills, learning to accurately document observations, developing an understanding of other health care professionals, and instructing a small group in an activity. (See note.) activity. (See note.)

OTAT 0109-Applied Anatomy and Kinesiology (2) Sp Prereq. OTAT 0202; Bio. 0111, 0115 or 0290 & 0291. Study and application of human anatomy and basic movement principles as used in occupational therapy.

OTAT 0110-Group Dynamics (2) Sp
Prereq. OTAT 0202, Psyc. 0101; Soci. 0101.
Study of group behavior. Practice in leading groups, observing group interactions and participating in various types of groups.

# OTAT 0202 - Disease Pathology (4) W Prereq. OTAT 0101, 0105, Biol. 0111.

Discussion of both physical and psychosocial dysfunctions commonly referred to occupational therapy. Includes the symptoms, etiology and treatments of various diseases.

#### -- Occupational Therapy in Developmental 0203

Disabilities (6) Su
Prereq. OTAT 0108, 0109, 0110; Psyc. 0101 & 0173.
Study of conditions which interfere with normal growth and development. Introduction to the application of occupational therapy in the treatment of developmental disabilities. Emphasis on the role of the O.T. Assistant in treatment particularly in the public school setting.

OTAT 0204 - Practicum II (3) Su Prereq. OTAT 0108, 0109, and 0110. Similar to Practicum I (OTAT 0108) but will be in a different type of setting. (See Note).

#### \*OTAT 0205 -- Therapeutic Media II (3) F,W

Prereq. OTAT 0101.

Analysis, adaptation, and therapeutic application of weaving and woodworking.

#### \*Denotes classes with Lab fees.

#### OTAT 0208 -- Practicum III (3) F

Prereq. OTAT 0204

Supervised clinical experience under the direction of qualified personnel in a variety of settings. Continuation of skill development of Practicum I with additional emphasis on case study, treatment planning and occupational therapy treatment techniques. (See Note).

## **TATO**

0210 -- Occupational Therapy in Physical Disabilities (6) F
Prereq. OTAT 0102, 0203, 0204; Biol. 0111, 0115 or 0290 &

Exploration of occupational therapy theories in the evaluation and treatment of physically disabling conditions. Lab emphasis is on instruction of activities of daily living, work simplification, energy conservation, and fabrication of orthotic and adaptive devices. orthotic and adaptive devices.

### OTAT 0211 - OTAT Seminar (2) W

Prereq. OTAT 0208 and 0210.

Discussion of the professional roles and responsibilities of the Occupational Therapy Assistant. Includes orientation to licensure, certification, legal and ethical issues, peer review and other current professional issues.

OTAT 0212 — Occupational Ther. in Mental Health (4) W
Prereq. OTAT 0208, 0210; Psyc. 0101, 0173; Soci. 0101.
Exploration of Occupational Therapy theories in the evaluation and treatment of psychosocial dysfunction. Lab emphasis is on the development of observation skills, group dynamics, group leadership, effective communication, and therapeutic use of self.

OTAT 0220 & 0221 - Clinical Application (6) ea. S
Prereq. Successful completion of all OTAT and other

required courses.

experience in and Supervised fieldwork placement responsibility for delivery of service to patients/clients.
Emphasizes the application of academically acquired knowledge leading to the performance level of an entry-level occupational therapy assistant. (Each course is 6 wks. in length.)

(Note: Student must have maintained a 2.00 GPA and receive a "C" or better in all OTAT classes to participate in OTAT 0108, 0204, 0208, 0220, and 0221).

#### **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) F

Survey of basic problems, concepts and methods in philosophy.

Phil 0102 - Introduction to Logic (4) W
Use of evidence in establishing reliable conclusions.

Phil 0103 -- Moral Philosophy (4) F,W,Sp
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.

<sup>\*\*</sup>Offered on demand only.

# PHYSICAL SCIENCE PSci 100A-Topics in Science (4)

\*PSci 0101-Physical World (4) F,Sp
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 lab.

\*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 lab.

\*PSci 0103--Physical World (4) W

Designed for nonscience majors. Fundamental ideas of energy. Topics include heat, light, sound, electricity, solar energy, and nuclear energy. 3 lec. 3 lab.

\*PSci 0104-Physical World (4) Sp

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 lab.

PSci 0105--Physical Science (5) F,W,Sp

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 lec. 3 lab.

\*\*PSci 0290A--Topics in Physical Science (1)
\*\*PSci 0290B--Topics in Physical Science (2)
\*\*PSci 0290C--Topics in Physical Science (3)
\*\*PSci 0290D--Topics in Physical Science (4)

Study of topics otherwise unavailable to students.

### PHYSICAL THERAPIST ASSISTANT

PTAT 0111--Principles of Physical Therapist Asst. (3)
Prereq. Acceptance into the Physical Therapist Assistant

Program.

The purpose, philosophy, history and development of the physical therapy profession, including the function of the American Physical Therapy Associate. The development of the Physical Therapist Assistant, his or her duties, function, legal responsibilities and limitations, including medical ethics. Three lecture hours per week.

PTAT 0101--Medical Terminology for PTA (2)
Prereq. Acceptance into the Physical Therapist Assistant

Program.

Structure of medical words, including spelling and definitions, common prefixes, suffixes and root words and how to combine them to form medical terms. Patient records will be introduced as well as anatomical body parts, diseases, operations, and drugs which are emphasized by analysis of the terms and structure of the words. One lecture hour per week.

\*PTAT 0112--Physical Therapist Assist. Procedure

(5)
The first of three sequential physical therapist assistant procedure courses. Basic physiology and theory of heat, hydrotherapy, cold, and massage. Body mechanics, burns, isolation techniques, patient positioning, and traction. Student has the opportunity to develop skills in the therapeutic application of these modalities. 3 lec. 6 lab.

\*PTAT 0113--Physical Therapist Assist. Procedures

(5)
Theory and therapeutic application of modalities, such as low and high frequency currents, biofeedback, TENS, Jobst extremity pump and diathermy. 3 lec. 6 lab.

\*Denotes classes with Lab fees.

\*PTAT 0114 -- Physical Therapist Assist. Procedures III (5)<sub>.</sub>

Principles of muscle testing, goniometry, joint range of motion, flexibility, coordination, gait training and endurance exercise programs. Exercises for specific joints, diseases, and medical conditions. 3 lec. 6 lab.

\*PTAT 0115 -- Anatomy and Kinesiology (5)

Advanced anatomy course designed specifically for the Physical Therapist Assistant. Bone and muscular structure in detail as well as locomotion, work and force. 3 lec. 6 lab.

PTAT 0202 – P.T. in Physical Dysfunction (3)
Discussion of physical dysfunctions commonly referred to physical therapy. Includes symptoms, etiology and treatments of various diseases. 3 lec.

PTAT 0211 – Clinical Practicum I (4)

Second experience in clinical settings in which the student will perform theories and techniques for patient care under close supervision of a licensed physical therapist. Twelve contact hours per week in the clinical setting.

PTAT 0212 – Clinical Practicum II (4)
Intermediate experience in clinical settings performing previously learned theories and techniques under supervision of a licensed physical therapist. Twelve contact hours per week in the clinical setting.

PTAT 0213 - Clinical Practicum III (6)

Advanced experience in clinical settings. Thirty-eight hours per week in the clinical setting.

PTAT 0216 - Clinical Practicum & Seminar (2)

Introductory experience in clinical settings in which students will perform theories and techniques of patient care under close supervision of licensed physical therapist. Procedures and techniques discussed in seminar. Four contact hours per week.

PTAT 0231 - Rehabilitation Procedures I (4)

Rehabilitation skills relating to orthopedic and cardiac principles. Includes study of prosthetics, orthotics, fractures and postural deviations, and cardiac rehabilitation. 3 lec. 3 lab.

PTAT 0232 - Rehabilitation Procedures II (4)

Rehabilitation skills needed for treatment of central nervous system, peripheral nervous and respiratory systems. Included is stroke rehabilitation, spinal cord injuries, pediatrics and postural drainage. 3 lec. 3 lab.

**PTAT** 

0235 -- Physical Therapy Trends and Administrative Procedures (2) Identification of concepts, techniques, and administrative skills used in the efficient operation of a Physical Therapy Department. Special emphasis on establishing and maintaining patient records. 2 lec

PTAT 0255 - PTA Seminar (2)

Students will present case studies of patients treated in their clinical assignments. Special procedures and techniques seen in Physical Therapy will be discussed as well as problems encountered. 2 lab hrs. per week.

#### **PHYSICS**

Phys 0100A -- Fundamental Physics (4) F,W,Sp,S

This course is designed for those students with an inadequate background in math or physics. 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.

\*Phys 0201 -- Physics (Mechanics) (4) F,W,Sp
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 lab.

<sup>\*\*</sup>Offered on demand only

#### \*Phys 0202--Physics (Electricity) (4) F,W,Sp

Prereq. Physics 0201

Prereq. Physics U2U1
An introduction to electrical circuitry with emphasis on the concept 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. Electric power and energy. Electromagnetism and electromagnetic induction. Properties of alternating current, simple A-C circuits. Generators and motors. 3 lec. 3 lab.

\*Phys 0203--Physics (Heat, Light, Sound) (4) F,W,Sp Prereq. Physics 0201. Fundamental Properties and basic principles of heat, light and sound. 3 lec. 3 labs.

#### 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, 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 (3)

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 founder profitors. 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 blowing molding equipment.

\*PEng 0104 - Thermo-Forming (3)

Prereq. PE 0101, 0102, EnDR 0101 or Advisor Approval.
Discussion will cover thermo-forming processes and thermoforming equipment. Thermo-forming will be introduced with special emphasis on vacuum forming equipment and processes.

Characteristics of common plastics used in processes. Characteristics of common p thermoforming. Numerous laboratory projects.

\*PEng 0105 - Injection Molding (3) Prereq. PEng 0101, 0102, EnDR 0101 or Advisor Approval. Various types of injection molding processes will be studied: (Reciprocating Screw, Plunger, Cone, Preplasticizers, Screw Pot, RIM< etc.) Laboratory operations involves the actual operation of injection molders, field trips, and the designing and fabricating of an injection mold.

\*PEng 0201 - Thermal Molding Machine Control (4)
Prereq. PEng 0101, 0102, EnDr 0101 or Advisor approval.
The student will study the industrial control mechanisms important to the molding machines and processes. This course includes; basic pneumatic, hydraulic electrical, electronic, and thermal control systems encountered in most plastice plants. plastics plants.

PEng 0202 -- Production Control and Planning (4)

Basic concepts of production planning and control methods.
Inventory planning, facilities design, capacity consideration. Actual planning and scheduling exercises on an individual basic. individual basis.

\*PEng 0203 - Testing of Plastic Materials (3)
Prereq. Math 0131 and PEng 0101.

Prereq. Math 0131 and PEng 0101. 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 workers, materials, and machines, as related to space and costs. Selection and use of modern equipment and methods for handling materials in industrial processes.

## \*PEng 0206 -- Introduction to Polymer Science (3)

Prereg. Chem 0122 or Chem 205

An introduction to structure and properties of plastics, textile fibers, and elastomers. The synthesis and characterization of polymers by chemical and physical methods is discussed.

#### \*PEng 0207 - Fundamentals of Processing Equipment & Maintenance (2)

Piping diagrams, heat exchangers, reactors, etc. commonly used in the chemical industry. Emphasis on maintenance problems and methods.

## \*PEng 0209 - Fabrication & Finishing of Plastics Prod.

(4)
Prereq. PEng 0101, 0102.
Study of industrial manufacturing methods for plastics products not encountered in the previous courses. Areas covered will include: printing, cementing, electroplating, metallizing, hot stamping, polishing, welding, engraving, machining. Special emphasis will be placed on compression, transfer, SMC, BMC, TMC, and FRP processes.

PENG 0210 -- Properties of Materials (4)

The course provides a basis for design considerations of usage of polymer materials. Because of the applications oriented approach, the student will learn the "reasons" for using designs or polymer material. Extensive usage of tables on properties and shapes will be applied in this course.

#### **PSYCHOLOGY**

Psyc 0100A -- Learning Orientation (4) F,W
Techniques for learning definitions, vocabulary, lists, etc. to
assist in academic achievement. (The 4 hours of credit do
not apply toward the associate degree, but do apply toward
total hours accumulated at the college.)

Psyc 0100B -- Pre-Anatomy (4)
Students are prepared for anatomy by learning medical roots, muscles, bones, body planes, and medical abbreviations. (The 4 hours of credit do not apply toward the associate degree, but do apply toward total hours accumulated at the college.) This is a special course developed primarily for allied health related programs.

Psyc 0101 - Principles of Psychology (4) F,W,Sp 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) F,W, Sp An exploratory investigation of career planning.

## Psyc 0131 - Human Adjustment (4) F,W,Sp

Prereq. Psyc 0101.
A consideration of conflicts and problems of adjustment in modern society

Psyc 0173 – Human Growth & Development (4) F,W,Sp Prereq. Psyc 0101. A study of the factors affecting human growth and development through the life cycle from infancy to advanced maturity.

Psyc 0261 - Industrial Psychology (4) Sp
Prereq. Psyc 0101 and Math 0150.
Applications of psychology principles in business and industry.

### Psyc 0270 - Abnormal Psychology (4) F,W,Sp.

Prereq. Psyc. 0101.

Studies behavior disorders with emphasis on neurosis, psychosis, and personality disorders and their effects on the individual, family and society.

## Psyc 0275 - Educational Psychology (5) F,W,Sp

Prereq. Psyc 0101.

Psychological foundations of education with emphasis upon learning, transfer, motivation, and evaluation.

\*Psyc 0290A-Topics in Psychology (1)
\*Psyc 0290B-Topics in Psychology (2)
\*Psyc 0290C-Topics in Psychology (3)
Prereq. Permission of instructor is required. Topics of special interest to students are investigated under the direction of the psychology staff. This course may be repeated but not to exceed a total of six -credit hours.

#### QUANTITATIVE METHODS

#### QMet 0201--Intro. to Probabilities & Statistics (4) F,W,Sp,S

Hypothesis testing for one and two population means and variances; tests of goodness of fit and independence; experimental design and analysis of variance, linear regression and correlation; decision theory.

#### RADIOLOGIC TECHNOLOGY

\*RdIT 0101--Radiologic Technology I (4)
Prereq. Admission to Radiologic Technology Program. This course is designed to acquaint the new student with the goals, philosophies, and organizations of the radiography program and Radiology Department. Medical ethics, medicalegal considerations, elementary radiation protection, fundamentals of radiographic exposure, and radiographic positioning of the chest and abdomen are covered. An orientation and tour of the clinical facility and department of radiology; selected clinical observations and experiences are included.

# \*RdIT 0102--Radiologic Technology II (4) Prereq. RdIT 0101, RdIT 0200.

This course concentrates on radiographic positioning of the appendicular skeleton with application of theory in the laboratory. Selected clinical experiences are planned to reinforce learning and provide the student with the opportunities to apply principles and techniques.

#### \*RdIT 0103--Radiologic Technology III (3)

Prereq. RdIT 0102.

This course concentrates on radiographic positioning of the axial skeleton with application of theory in the laboratory.

\*Rdlt 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 (3) Prereq. RdiT 0104.

Continuation of 104 emphasizing vascular and neurological examinations with analysis of equipment used.

RdiT 0106 -- Radiologic Technology VI (3)
Prereq. RdiT 0105.
This course examines advanced radiographic techniques and imaging modalities, including technic charts, automatic exposure control, fluroscopy, image intensifiers, conventional tomography, steroscopy, xeroradiography, computer literacy, computed tomography and other specialized areas of imaging.

# RdIT 0107 -- Radiologic Technology VII (3) Prereq. RdIT 0106.

A series of lectures on pathologic conditions and their impact on the radiographic process. Includes student participation in film evaluation and case studies.

RdIT 0108 -- Radiologic Technology VIII (2)
Prereq. RdIT 0107, 0113.
This course is designed as a self assessment of the independent cognitive areas utilized in the clinical situation.

RdIT 0111 -- Radiologic Physics (4)
Prereq. Math 0108.
A study of the fundamental methods of x-ray generators, basic x-ray circuits, interaction of radiation with matter, and units of measurement. Special attention will be given to related quality control testing.

## RdIT 0112 -- Radiobiology and Radiation Protection (3)

Prereq. RdlT 0111.
A study of the radiobiological areas of radiation interactions, radiosensitivity, radiation dose/response relationships, early and late radiation effects, radiation protection and health physics.

# RdIT 0113 - Radiographic Processing (2) Prereq. RdIT 0201.

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 and quality control.

RdIT 0200 - Basic Patient Care (3)
Prereq. Admission to Radiologic Technology Program.
The content of this course provides the student with knowledge and basic skills necessary for care of the patient. Includes medical and professional ethics, medical terminology and interpersonal relationships.

# \*RdIT 0201 -- Radiographic Exposure (4) Prereq. RdIT 0102.

Prereq. RdIT 0102.
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 affecting patient exposure. Special attention will be given to related quality control testing.

RdIT 0211 - Clinical Experience I (2)
Prereq. RdIT 0102.
Practical application of radiologic technology principles, positioning and techniques with emphasis on upper and lower positioning and techniques with emphasis on upper and lower techniques. extremity examinations in the radiology departments of affiliate hospitals. Includes film critique sessions.

RdIT 0212 - Clinical Experience II (3)
Prereq. RdIT 0212.
Practical application of radiologic technology principles, positioning and techniques with emphasis on spine and skull examinations in the radiology departments of affiliate hospitals. Includes film critique sessions.

#### RdIT 0213 - Clinical Experience III (3)

Prereq. 0212
Practical application of radiologic technology principles, positioning and techniques with emphasis on urographic, biliary and gastrointestinal examinations in the radiology departments of affiliate hospitals. Includes film critique

# RdIT 0214 - Clinical Experience IV (3) Prereq. RdIT 0213.

Practical application of radiologic technology principles, positioning and techniques with emphasis on gastrointestinal, portable and advanced bonework examinations in the radiology departments of affiliate hospitals. Includes film critique sessions.

# RdIT 0215 - Clinical Experience V (3) Prereq. RdIT 0215.

Practical application of radiologic technology principles, positioning and techniques with emphasis on headwork, surgery and advanced radiographic examinations in the radiology departments of affiliate hospitals. Includes film critique sessions.

RdIT 0216 - Clinical Experience VI (4)
Prereq. RdIT 0215.
Continuation of RdIT 0215 with practical application of radiologic technology principles, positioning and techniques in advanced imaging modalities. Includes film critique sessions.

<sup>\*</sup>Denotes classes with Lab fees.

#### RESPIRATORY THERAPY

RpTT 0100-Medical Terminology (1)

An introductory level course designed to acquaint the student with the terminology commonly encountered in the medical, nursing, and allied health professions. Emphasis is placed through programmed instruction, on Latin and Greek prefixes, suffixes, combining forms, and the art of building and analyzing medical terms.

RpTT 0101--Basic Patient Care (3)

An introductory level course in the common basic skills required of all health care practitioners involved in direct patient care. Included in this course is an introduction to the respiratory therapy profession and the health care system of

RpTT 0110--Fundamentals of Respiratory Care I (4)

An introductory level course in the principles and practice of ambient pressure respiratory care procedures and the use, principle of operation, and care of respiratory care equipment associated with the administration of these procedures.

RpTT 0111--Fundamentals of Respiratory Care II (4)
An introductory level course in the classification, maintenance, principle of operation, and use of positive pressure ventilators and the principles and practice of I.P.P.B. therapy. This course shall include an overview of common pharmacologic agents with an emphasis on those agents directly administered by the respiratory therapy technician and the fundamental concepts of microbiology, sterilization, and disinfection.

RpTT 0112--Airway Management (1)

This course is devoted to the establishment, care, and maintenance of the airway with emphasis on the artificial airway. Theoretical aspects of this course are designed to enhance related clinical practice in RpTT 0141.

RpTT 0113--Continuous Mechanical Ventilation (3)

An introductory level course in the role and responsibility of the respiratory care practitioner in the intensive/coronary care unit. Emphasis is placed on the technical aspects of continuous mechanical ventilation from initiation through

RpTT 0114 -- Pulmonary Rehabilitation & Home Care (1)

This course is designed to provide the student with an understanding of the health care delivery system as it relates to the respiratory care of a patient in the home. The course will vary in emphasis and utilize several guest instructors to explore the multi-dimensional aspects of home health care delivery and the rehabilitation of the patient with pulmonary disease.

RpTT 0115 -- Pediatric & Neonatal Respiratory Care (2)
An introductory level course designed to provide a basic overview of the role of the respiratory therapy technician in the care of the child and newborn infant with respiratory disease. The scope of this course shall include embryology, isotate the provider of the course shall include embryology. pathophysiology, and respiratory care procedures for the newborn and child.

RpTT 0116 -- Pulmonary Function Testing (2)

This course is designed to provide the student with the fundamental concepts of pulmonary function testing. Emphasis is placed in the area of spirometry and the basic physiology of each diagnostic procedure.

RpTT 0121 -- Pulmonary and Cardio-Vascular Anatomy and Physiology (3)
This course consists of a series of lectures on the anatomical

and physiological concepts and principles related to normal and abnormal lung function. Emphasis is placed on the application of these concepts to the clinical practice of respiratory care.

RpTT 0122 -- Pathophysiology (3)

This course consists of a series of lectures focused on the most commonly encountered cardio-pulmonary diseases. Emphasis is placed on the pathophysiology and clinical presentation of each disorder and the application of respiratory care.

RpTT 0140 -- Clinical Practice I (4)

This course serves as an introduction to the clinical practice of fundamental concepts of respiratory care. Emphasis is placed on application and practice of those concepts presented in RpTT 0110 and RpTT 0111.

RpTT 0141 - Clinical Practice II (6)

This course serves as an introduction to the clinical practice of respiratory care procedures specific to the intensive/coronary care unit and the critically ill patient. Emphasis is placed on clinical practice in the areas of continuous mechanical ventilation and the establishment and care of the artificial airway.

RpTT 0142 - Clinical Practices III (6)
An introduction to the practice of respiratory care in several specialty areas including the pulmonary function diagnostic laboratory, the pediatric and neonatal intensive care units, the EKG laboratory, and the bronchoscopy laboratory.

0201 — Pulmonary Function Testing and Cardio-Vas., Evaluation & Testing (3)
This course shall consist of a series of lectures focused on

advanced concepts of pulmonary function testing and cardiovascular evaluation and testing. Emphasis is placed on data interpretation, the clinical administration of advanced diagnostic procedures, and the relationship of the data to the pathophysiology of the disorder.

RpTT 0202 - Pediatric and Neonatal Respiratory Care

(3)
A sophomore level study of the pathophysiology of pediatric and neonatal cardio-pulmonary disorders and the principles and practice of respiratory care for the child and newborn

RpTT 0203 - Pharmacology (3)

A sophomore level study of the general principles of pharmacology including drug types, dispensing, dosage, and effects including contraindications and regulations. Drug groups related to respiratory therapy will be emphasize to include bronchodilators, wetting agents, detergents, mucolytics, proteolytics, antibiotics, muscle relaxants, and corticosteroids.

and Renal Anatomy & Respiratory RpTT Pathophysiology (3)
An advanced level study of the anatomy and pathophysiology of the respiratory and renal systems with clinical applications to the field of respiratory care.

RpTT 0212 -- Cardio-Vascular Anatomy and
Pathophysiology (3)
An advanced level study of the anatomy, physiology, and
pathophysiology of the cardio-vascular system with
applications in the area of hemodynamic monitoring, EKG
studies, and recognition of cardiac arrhythmias.

RpTT 0222 -- Departmental Mangement (2)

This is an introductory level course in the organization and management of a respiratory care department. Emphasis will vary in accordance with current events affecting the management of a respiratory care department.

RpTT 0240 - Clinical Practice IV (4)

This course offers the student advanced clinical practice in the specialty areas of the neonatal intensive care unit, the cardio-vascular diagnostic clinical practice in the pulmonary function an laboratory, and advance intensive/coronary care unit.

RpTT 0241-Clinical Practice V (4)

This course provides the student with an opportunity for continuing the advanced clinical practice of specialty areas begun in RpTT 0240. Emphasis is on pulmonary functions, cardiovascular diagnostics and additional experience in the intensive/coronary care unit.

RpTT 0242 -- Clinical Practice VI (4)

This course provides the student with the opportunity to develop additional clinical practice skills in a specialty area of the student's selection. Emphasis and course objectives will vary in accordance with the specialty area selected. Not required for those students successfully completing RpTT 0142.

RpTT 0250 -- Registry Review (4)

This course provides the sophomore level student with a pregraduation review of the principles and practice of respiratory care with emphasis on the N.B.R.C. examinations. Emphasis is placed on the actual participation of simulated national examinations and an analysis of the student's performance.

#### **SECRETARIAL**

\*ExST 0101-Typing I (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, short tabulated reports, and manuscripts.

\*ExST 0102-Typing II (3)

Prereq. Typing I.
Typing II is a continuation of Typing I with students applying basic typing techniques to increasingly more difficult

basic typing techniques to increasingly more unificult 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 electronic typewriter.

\*ExST 0104-Typing IV (3)
Prereq. Typing I, II, and III.
Typing IV consists of a production typing practice set.

ExST 0105--Keyboarding (1)

This course will enable a student to learn to keyboard by touch the alphabetic and numeric keys on a typewriter or computer.

ExST 0111--Shorthand I (3)

The student is taught to read and write Gregg shorthand and develop the nonshorthand elements of transcription which includes 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 and producing mailable copy.

\*ExST 0120 -- Business Machines I (1)
A course degisned to develop the student's ability to use electronic calculators.

\*ExST 0121 -- Word Processing I (3)

Prereq. Minimum typing speed of 40 wpm and the ability to set up letters, memos, reports, and tabulations. Word processing concepts and skills will be presented to the person with no previous training in word processing.

ExST 0214 -- Shorthand IV (3)
Prereq Shorthand I, II, and III
Emphasizes speed building and increasing mailable copy

ExST 0215 -- Shorthand V (3)
Prereq. Shorthand I, II, III, and IV.
Further emphasizes speed in taking dictation and an increased mailable copy rate.

ExST 0216 -- Shorthand VI (1)
Prereq. Shorthand I, II, III, IV, and V.
A course designed to increase each student's ability to take dictation at high rates of speed and transcribe into mailable сору.

\*ExST 0222 -- Word Processing II (3)
Prereq. Word Processing I.
This class is an office simulation designed to provide individuals with realistic experience as a word processing operator. As a word processing operator, the student moves through seven departments of a company using all the procedures presented in Word Processing I.

\*ExST 0221 -Dictation and Transcription (3)
Prereq. Typing I, II, and III.
A course designed to develop the student's ability to transcribe business documents into mailable copy form using transcription equipment.

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; and Dictation and Transcription. This class is designed to emphasize the responsibilities and opportunities of a secretarial position. It encompasses a variety of secretarial duties such as using word processing equipment, using transmittal services, assisting with travel arrangements, planning meetings, and presenting business data. The personal qualities of a professional secretary and job opportunities available to the college-trained secretary are also discussed.

\*ExST 0242 -- Secretarial Practices II (3)
Prereq. Secretarial Practices I, Typing IV, and Shorthand IV or business elective. This class is an executive secretarial simulation project.

\*ExST 0243 - Secretarial Practices III (3)
Prereq. Secretarial Practices II, Word Processing I, and Word Processing II.

This class is designed to introduce students to the changes that high-tech equipment has made on today's office. Students will see how various tasks handled by a secretary can be completed with greater ease by the use of specialized equipment. Assignments will be completed on typewriters and word processors.

ExST 0244-- Medical Secretarial Practices (3)
Prereq. Secretarial Practices II, Word Processing I, and Word Processing II

This class is a simulation which introduces students to the administrative routines of a doctor's office. Assignments will be completed on typewriters and word processors.

ExST 0245 -- Legal Secretarial Practices (3)
Prereq. Secretarial Practics II, Word Processing I and Word

Processing II.

This class simulates five days of secretarial work in a law office. It covers four fields of law: real estate and property transfer, litigation, wills and probate, and corporate law. Assignments will be completed on typewriters and word processors.

MdST 0111 -- Medical Shorthand I (3)

Designed to give advanced shorthand students practice in note taking and transcription of medical reports, diagnosis, 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 & Transcription I (3)
Prereq. Typing I, II, & III and Shorthand I, II, and III.
Emphasis is on the development of mailable transciption from a transcribing machine, medical vocabulary building, and a review of punctuation and spelling.

\*MdST 0222 -- Medical Dictation & Transcription II (4)

Continuation of MdST 0221. Emphasis is on mailable transcription to meet medical office standards.

MdST 0223 -- Medical Terminology I (3)
Prereq. 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.

<sup>\*</sup>Denotes classes with lab fees.

MdST 0241-Medical Secretarial Practices (3)

Prereq. Typing I, II, and III, Shorthand I, II, & III, Records Management, Business Machines, Dictation & Transcription.

An introduction to the general responsibilities required by a medical secretary, including the preparation of medical documents and development of 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 test, techniques, and assisting with patients is provided.

LqST 0111--Legal Shorthand I (3)

Designed to give practice in note taking and transcription to advanced shorthand students. Preparation of legal 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

\*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 Practices I (3)
Prereq. Typing I, II & III, Shorthand I, II & III Records
Management, Business Machines, Dictation & Transcription. 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 WORK

\*\*SoWr 0101-Intro. to Social Welfare & Social Work (4)

F.W Overview of the field of social welfare with equal emphasis on fundamental concepts and services in social welfare and current and emerging tasks in the profession of social work.

#### SOCIOLOGY

Soci 0101 -- Principles of Sociology (4) F,W,Sp

Explores nature of society and introduces the student to basic concepts, perspectives, theories and topics in the field of sociology.

0150--Elementary Statistics for the Social & Behavioral Sciences (4) F,W
Prereq. 3 yrs. of h.s. math or Algebra I and either Govt. 101, Psy. 101, or Soc. 101, (Not for mathematics 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.

Soci 0201 -- Current Social Problems (4) F,W,Sp
Prereq. Soci 0101.
Sociological analysis and discussion of current American social problems and their historical context. Examines definitions of and possible solutions for these problems in a sociological perspective.

#### \*Denotes classes with Lab fees.

Soci 0202 -- Marriage and Family Sociology (4) W,Sp

Special emphasis is placed upon the American family experiences. Of central concern is the contemporary marriage process and context, family relationships, sexuality, family dysfunctions, and changes.

Soci 0203 -- Introduction to Social Psychology (4) Sp

Prereq. 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) F,Sp

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), sub-culture characteristics, 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) F

A study of women's role in society from a historical and sociological perspective.

Soci 0211 -- Human Sexuality (4) W,Sp

An in-depth view of the current status of human sexuality in the United States. Examined are sexual perspectives; current research; modes of sexual expression and enhancement; physiological, sociological and pychological basis of human sexuality; sexual variations, and sex ethics.

Soci 0224 -- Urban Sociology (4) F,W,Sp Examines the structure and nature of social organization from a sociological perspective. Ecological and nonecological theories are used to study the processes of urbanization and the involvements and problems of the urban community.

\*\*Soci 0227 - Sociology of Education (4)
Social organization of education, teaching as a profession.
Class, ethnic, and other social factors affecting the educational process. Educational institutions and the community.

Soci 0229 - Minority Groups (4) F
Basic approaches are used to analyze American minority
groups and their contemporary situation. Special emphasis
is placed on patterns of prejudice and discrimination as well as the dynamics of race relations.

Soci 0234 - Sociology of Aging (4) Sp

Various aspects of aging are examined with special emphasis upon social theories of aging, demographics, physical, psychological, and sociological aspects of the aging process.

\*\*Soci 0261 - Social Deviance (4)

UZO1 - SOCIAI Deviance (4)
Traditional and nontraditional theories are used to present the nature of deviance and its consequences. A variety of deviant patterns of behavior are examined such as sexual deviance, drugs, violence, amateur crime, criminal subculture and organizations, white-collar and government crime, and cognitive deviance.

\*\*Soci 270 -- Complex Organizations (4)
Examines the nature and types of organizational environments, behavior, theory, and issues.

275 - Sociology of Occupations & Professions \*\*Soci (4) Sociological analysis of contemporary occupations and professions in the United States, social stratifications in the work place, technology, and the individual in the work place.

\*\*Soci 0290A -- Topics in Sociology (2)
\*\*Soci 0290B -- Topics in Sociology (3)
\*\*Soci 0290C -- Topics in Sociology (4)
Prereq. Permission of instructor is required.
Topics of special interest to students are investigated under the direction of the sociology staff. This course may be repeated but not to exceed a total of six hours.

<sup>\*\*</sup>Offered on demand only.

#### **SPANISH**

\*\*Span 0111--Elementary Spanish I (4)F

Development of comprehension, speaking and reading skills. Basic Grammar. Lab required. Beginning course of 3 qtr. 1st year sequence.

\*\*Span 0112-Elementary Spanish II (4) W Prereq. 0111. Continuation of 0111.

\*\*Span 0113-Elementary Spanish III (4) Sp Prereq 0112. Continuation of 0112.

\*\*Span 0211--Intermediate Spanish I (4) F
Prereq. Span 0113 or 2 to 3 years H.S. Spanish.
Reviews grammar. Offers selected readings in Hispanic literature. Oral expression is emphasized.

\*\*Span 0212--Intermediate Spanish II (4) W
Prereq 0211 or instructor's approval.
Emphasizes oral and written expression. Continues intensive review of grammar. Selected readings in Hispanic literature are stressed.

\*\*Span 0213--Intermediate Spanish III (4) Sp
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.

#### **SPEECH**

Spch 0103-Public Speaking & Human Communications
(3) F,W,Sp,S
Principles of public speaking, practice in presenting informative and persuasive speeches with emphasis on the human communication process.

\*\*Spch 0105--Introduction to Mass Communication (4)
Study of 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 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.

\*\*Spch 0220--Oral Interpretation of Literature (4)

Techniques of oral interpretation and development of adequate intellectual and emotional responsiveness to meaning of literature.

\*\*Spch 0290A -- Topics in Communications (1)
\*\*Spch 0290B -- Topics in Communications (2)
\*\*Spch 0290C -- Topics in Communications (3)
Study of various topics otherwise not available to students.

#### **THEATER**

\*Thar 0105 -- Practicum in Management (2-4) F,W,Sp
Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

\*Thar 0110 -- Introduction to Perfomance (4) F,W,Sp
Introductory study of acting and actor. Emphasizes
preparation of self and text, exploration of space,
development of physical and vocal freedom through
improvisation and theater games.

\*Thar 0135 -- Practicum in Production Design (2-4) F,W,Sp Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

\*Thar 0170 -- The Theater Experience (4) F,W,Sp
Exploration of nature and function of theater as art form through exploration of performer/space/audience interrelationship. Attendance at selected rehearsals and performances. Theater productions augment lecture and discussion sessions. Attendance at selected professional theatrical performances may be included.

\*Thar 0201 -- Children's Theatre (5) F,W, Sp
A course designed to cover dramatic compositions and practical production procedures

\*Thar 0205 -- Practicum in Management (2-4) F,W,Sp Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

\*Thar 0210 -- Acting I (4) F,W,Sp
Prereq. Thar 0110 or instructor permission
Principles and techniques of acting with major emphasis on
developing trust and freedom. Warm-up techniques, theater
games, improvisation, monologue exercises, and preliminary
scoring techniques underline this introduction to work of

\*Thar 0215 -- Practicum in Acting (2-4) F,W,Sp Prereq. Instructor permission. Supervised lab practice in rehearsal and public performance of roles. May be repeated.

\*Thar 0220 -- Oral Interpretation (3) F,W,Sp

Techniques in oral interpretation and development of intellectual and emotional responsiveness to meaning of literature.

\*Thar 0235 -- Practicum in Production Design (2-4)
F,W,Sp
Prereq. Instructor permission.
Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

\*Thar 0237 -- Basic Makeup (1) F,W,Sp Prereq. Theater or instructor permission. Theory and practice of stage makeup.

<sup>\*</sup>Denotes classes with Lab fees.
\*\*Offered on demand only.

# 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 a 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 University and Ohio University, students can complete six degree programs at the Shawnee State Campus. These programs are:

- 1. Elementary Education
- 2. General Business
- 3. Nursing
- 4. Accounting
- 5. General Studies
- 6. Computer Systems in Business

The first two years of these programs are offered by Shawnee State University. 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 University has been designed for the primary purpose of allowing students the option of formulating their own individualized program of study. The philosophical basis of the degree is predicated upon the assumption that the students may be unable to achieve their 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 baccalaureatie institution or formulate a program designed for immediate employment. There are those students who may also pursue the degree for general or personal enrichment.

#### **Admission 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 the 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 Vice President of Technical Programs or the Vice President of Academic Programs depending upon the area of concentration.

The student may submit the application at any time; 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 appropriate Vice President.

### **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. Sixty hours must be completed after admission to the program. The Office of Records 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, students have ultimate responsibility for their program. Students will be encouraged to discuss the programs 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 their 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 University adheres to state articulation guidelines adopted by the Ohio Board of Regents.

## **SHAWNEE STATE UNIVERSITY**

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Verna K. Riffe	
Kenneth Thompson	
Dr. George F. White	Member

## Administration of the University

Mary Beaumont, M.A	Director of Minority, Handicapped and Special Services
Gene Beckett, Ph.D	Director of Developmental Education/Learning Center
Sharon L. Biddle, Ph.D	Assistant to the President
Frederick Chrisman, Jr., M.Ed	Director of Student Activities
Paul D. Crabtree, Ph.D	Director of Counseling and Assessment
Kenneth Crusan	Administrative Data Processing Programmer
Richard T. Davidson, M.A	Director of Career Planning and Placement
Paul Dawson	Director of Administrative Data Processing
William P. Duncan, B.S.C	Media Services Coordinator
Danny L. Evans, M.Ed	Director of Continuing Education, Evening Program Coordinator
Jackie Evans, M.Ed	Director of G.E.D. Programs
Robert L. Ewigleben, Ph.D	President
David L. Gleason, Ph.D	Director of Facilities Planning/University Services
Gary Gulker, M.Ed	Coordinator, Ohio Technology Transfer Organization
Neil Hawk, B.B.A	Director of Business and Finance/Treasurer of the University
Catherine H. Horr, Ph.D	Special Assistant for Accreditation and Institutional Assessment
Richard R. Howard, M.A	Dean of Student Services
Stephen J. Midkiff, M.Ed	
Tess D. Midkiff, M.L.S	Director of Library and Media Services
Rosemary K. Poston, M.A	Director of Admissions
	Director of Special Programs
	Reference Librarian
Barbara Vansickle	Administrative Data Processing Programmer
Susan Warsaw	
Harry E. Weinbrecht, M.S. P.E	Athletic Director/Director of Sports Facilities
Eugene Wilson, M.A	Director of Financial Aid and Veteran's Coordinator

## **FACULTY**

Gene S. Come, Ph.D., Dean, Divisions of Liberal Arts and Education

#### **DIVISION OF ENGLISH AND HUMANITIES**

James Flavin, Chairperson, Ph.D.

Shirley Crothers, M.A. Barbara Edwards, M.A. Emily Gulker, M.A. Betty Hodgden, M.A. Shannon Kiser, M.A. Kathleen Simon, M.A. Thomas D. Stead, M.F.A. Robert L. Wilson, Ph.D

#### DIVISION OF SOCIAL SCIENCES AND P.E.

Eleanor Marsh, Chairperson, M.A.

Paul Fowler, J.D. Robin Hagen-Smith, M.A. Jack James, M.S. John Kelley, M.A. Edward Miner, Ph.D. Jerry Walke, Ph.D. Betty Waller, M.S.

# **DIVISION OF ALLIED HEALTH**

James R. Kadel, D.D.S., Chairperson

James H. Kadel, D.D.S., Cna Joanne Abel, M.A. Sheryl Allison, M.Ed. Mary Ann Bestic, B.S. Debbie Bihl, MSN Mary Dillon, BSN Anna Gampp, M.Ed. Elizabeth A. Gowdy, M.Ed. Melvin Hatfield, A.A.S. Brenda Horr, BSN Valerie J. Kramer, B.S. Frederick W. Law, Ph.D. Patricia Lawson, B.S. Mary Lynd, MSN Gale Massie, MSN Jane Mayo, MSN Barbara S. Mullens, M.Ed. Linda Nickel, M.Ed. Brenda F. Pinkerman, M.S. Carol J. Schwope, M.A. Sharon Scott, M.Ed. Priscilla Strunk, A.A.S. William Sykes, M.B.A. Becky Thiel, MSN Donald L. Thomas, B.S. Jack Thomas, B.S. Linda Wooddell, M.Ed.

## **DIVISION OF SCIENCE AND MATHEMATICS**

David Todt, Chairperson, M.A.

Julia Basham, M.S. Ed. Trudy Bostick, M.S. R. Thomas Frazee, M.S. Gary Gemmer, M.A.T. Sibylle Herrmann, M.S. Phyllis Kegley, M.A. Scott Oliver, D.D.S. John Shupert, M.A. George Trampe, Ph.D.

#### **TEACHER EDUCATION**

James R. Biddle, Ph.D., Chairperson

## **DIVISION OF BUSINESS**

Larry C. Essman, M.B.A., Acting Chairperson

Gerald Barry, B.A.
Robbie Burke, M.S.
Catherine Chaffin, M.B.E.
Larry Estepp, M.A.
Mike Gampp, M.B.E.
Anita Gilmer, M.Ed. Loretta Jenkins, M.Ed. Peggy Jenkins, M.Ed. Joyce Kiser, M.B.E.

#### **DIVISION OF ENGINEERING**

C. Ray Irwin, M.Ed., Acting Chairperson

Rankin E. Barnes, A.A.S. Hankin E. Barnes, A.A.S.
Oliver Carver
Thomas K. Charles, M.A.
Richard Hevenor, B.S.
Robert Humble
William Penn, M.Ed.
Carl Priode, B.S.
Edmon Scott, B.S.
Lyle Smith, B.S.
George Trampe, Ph.D
Ken Warfield, B.S.

## SHAWNEE STATE UNIVERSITY

Portsmouth 45662 (614) 354-3205

## **CALENDAR 1987-1988**

#### **FALL QUARTER, 1987**

Walk-in registration for fall quarter
Early registration for fall quarter
Labor day—UNIVERSITY CLOSED
Last day to pay fall quarter fees (\$20 late fee after this date)
Late registration for fall quarter (\$25 late fee required if enrolled summer qtr)
Faculty and staff in-service
Last day for a full refund upon withdrawal
First day of class
80% refund of instructional fee upon withdrawal
Last day to add a class
Last day to apply for pass/fail
Columbus Day--UNIVERSITY OPEN
Walk-in registration for winter quarter
Last day to apply for non-credit
Veteran's Day — UNIVERSITY CLOSED
Thanksgiving Holiday — UNIVERSITY CLOSED
Early registration for winter quarter
Quarter ends; last day to drop a class/withdraw
Final exams for fall quarter
Grades due by 12:00 noon
Christmas Holiday — UNIVERSITY CLOSED April 28-July 10 August 11-12 September 7 September 15 September 16 September 17-18 September 20 September 21 September 21-Oct. 4 September 25 October 2 October 12 November 2-25 November 6 November 11 November 26-27 December 2 December 3 December 4-10 December 14 December 24-25

#### **WINTER QUARTER, 1988**

Last day to pay fees (\$20 late fee after this date)
Last day for full refund upon withdrawal
New Year's Day -- UNIVERSITY CLOSED
80% refund of instructional fee upon withdrawal
Late registration for winter quarter (\$25 late fee if enrolled fall quarter) December 31 December 31 January 1 January 4-Jan. 18 January 4 January 4 January 5 January 11 First day of evening classes First day of evening classes
First day of classes
First day of classes
Last day to add a class
Martin Luther King Day -- UNIVERSITY CLOSED
Last day to apply for pass/fail
Walk-in registration for spring quarter (closes at noon on Feb. 12)
President's Day -- UNIVERSITY OPEN
Early registration for spring quarter
Last day to apply for non-credit January 18 January 19 January 25-Feb. 12 February 15 February 24 Last day to apply for non-credit
Last day of quarter; last day to drop a course/withddraw February 25 March 11 March 14-18 Final exams Grades due at 12:00 noon March 21

#### **SPRING QUARTER, 1988**

January 25-Feb. 12

March 25

March 25

March 25

March 28

March 28

March 28

March 28

March 29

March 30

March 29

April 4

Last day to add a class

April 11

April 25-May 13

April 25-May 13

April 25-July 8

May 17

May 25

May 17

May 25

May 30

Malk-in registration for spring quarter (closes at noon on May 13

Malk-in registration for fall quarter (closes at noon on July 8)

Last day to apply for non-credit

May 30

Malk-in registration for summer quarter

May 30

Memorial Day--UNIVERSITY CLOSED

June 8

June 9-15

June 16

Graduation practice

Graduation practice

Gradbes due by 9:00 a.m.

GRADUATION



## **Shawnee State University**

Portsmouth, Ohio 45662

APPLICATION FOR ADMISSION

Complete this application and return it with the non-refundable \$15 application fee to the Office of Admissions at Shawnee State. Please have your high school transcript or general equivalence certificate (GED) also mailed to the same office. If you have attended another college or university, please have the registrar mail an official college transcript to the Admissions Office.

Personal Data				
Name:				
Last	First			Middle/Maiden
Local Address:				
Street & Number	City	State	Zip Code	County
Permanent or				
Parents' Address:Street & Number	City	State	Zip Code	County
Place of Birth:			•	•
State	County	Date of Bird	th:	
Home Phone:	Social Security	r Nicomahama		
	Oocial Security	number:		
High School Attended:	Grad, Date:		GF.	n ·
				Date Received
High School Address: Street & Number	City			
<b>2</b> • • • • • • • • • • • • • • • • • •	·	State	Zip Code	County
Sex: □ M □ F Marital Stat	tus:   (1) Married (2) S	ingle 🗆 (3)	Divorced	□ (4) Widowed
Resident Status for Past 12 Months:	Race/Ethnic:	Нои	sina/Livina A	Arrangements:
<ul> <li>□ 10—Resident of Scioto County</li> <li>□ 1—Resident of Ohio, Not Scioto County</li> <li>□ 2—Resident of Another State</li> <li>□ 3—Other National</li> <li>□ 4—Foreign</li> </ul>	<ul> <li>☐ 1—Black/Negro</li> <li>☐ 2—American Indian or Alaskan</li> <li>☐ 3—Asian or Pacific Islander</li> <li>☐ 4—Hispanic</li> <li>☐ 5—Caucasion/White</li> <li>☐ 6—Non-Resident Alien</li> </ul>	□ 1- □ 2-		rive from home)
Transfer Information (Required only if you have previous college work)				
Previous College Attended:				
Degree Earned:		otoo Atto		
Are you transferring college credit to this instit Did you receive financial aid?   Yes  No N	ution?   Yes   No	ales Altende	d:	to
Student Intent In Enrolling:				
<ul> <li>□ A. Work toward an Associate Degree (2 year degree)</li> <li>□ B. Work toward a Bachelor's Degree (4 year degree)</li> <li>□ C. Work toward a one year certificate</li> <li>How did you hear about Shawnee State?</li> </ul>	<ul><li>□ D. Gain qualification</li><li>□ E. Taking course for</li><li>□ F. Complete course</li></ul>	r personal enric	chment (non-d	earee)

#### I am making application for the following major: □ Journalism □ 18 Medical Laboratory ☐ 01 Accounting ☐ 19 Radiology (X-ray) Technology ☐ Pre-Law □ 02 Business Management ☐ Psychology ☐ 20 Practical Nursing (one year) Major in: ☐ 29 Physical Therapist Assistant ☐ Social Work ☐ Banking & Finance ☐ 28 Occupational Therapy Assistant □ Sociology ☐ Business Management ☐ 21 Respiratory Therapy Technology □ Theater ☐ Real Estate □ 26 Mathematics/Sciences ☐ 22 Emergency Medical Technician -☐ Retail Marketing Mgt. □ Botany Paramedic (one year) ☐ 03 Data Processing □ 23 Teacher Education □ Chemistry ☐ 05 Secretarial ☐ Elementary Education □ Dentistry □ 06 Plastics/Chemical Engineering ☐ Pre-Engineering ☐ Secondary Education \_ ☐ 37 CADD Maior □ Forestry ☐ Special Education ☐ 08 Electro-Mechanical Engineering ☐ Pre-Medical Technology ☐ 24/25 Arts/Humanities/Social Sciences Major in: ☐ Medicine ☐ Art ☐ Microbiology or Public Health and San. □ Robotics ☐ Business Administration □ 09 Instrumentation Technology ☐ Optometry □ Communication (General) □ 10 Automotive Technology ☐ Pharmacv ☐ Comparative Arts □ 11 Diesel Technology □ Recreation Studies ☐ English ☐ 12 Welding Technology □ Veterinary ☐ Government ☐ 16 Dental Hygiene ☐ Zoology ☐ History ☐ 17 Associate Degree Nursing ☐ 27 Individualized Studies ☐ 39 Undecided/Undeclared ☐ 38 Special, Non-Degree (Includes high school and transient students, senior citizens, etc.) Quarter and year you plan to enter: Fall \_\_\_\_\_ Winter \_\_\_\_ Spring \_\_\_\_ Summer \_\_ I certify that the statements included in this application are accurate and true to the best of my knowledge. Signature of Applicant

Please return the completed application and a non-refundable \$15 check or money order made payable to Shawnee State University to:

# **Admissions Office** SHAWNEE STATE UNIVERSITY

Portsmouth, Ohio 45662

PLEASE NOTE: Effective Fall, 1988, the American College Test (ACT) will be required of most degree seeking students. Please refer to Admissions Policy in the 1987-88 Catalog. All applicants to the following Allied Health Programs must submit the test results of the 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 before March 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.

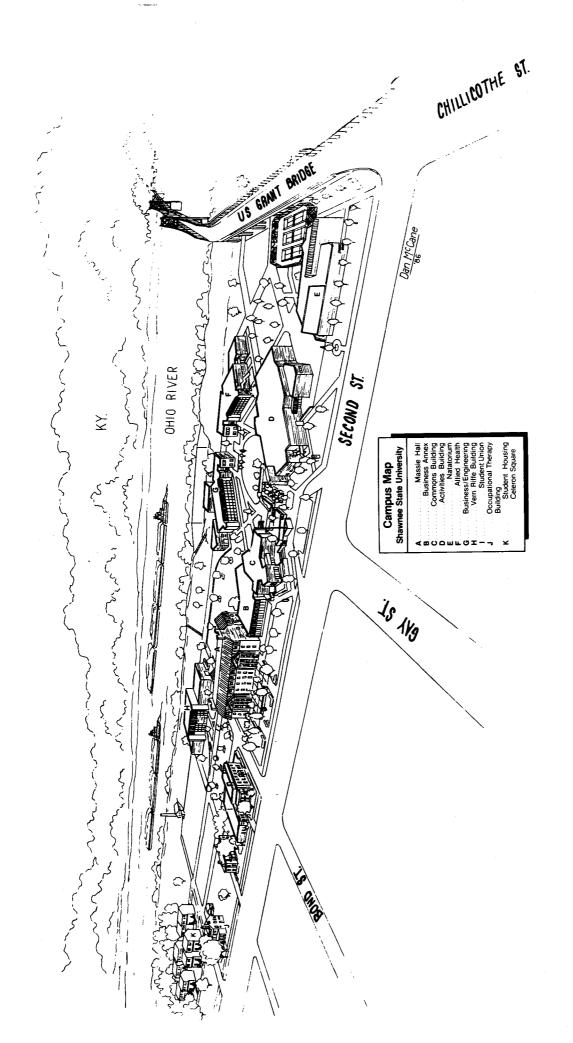
<sup>\*\*</sup> This institution, in compliance with Section 504 of the 1973 Rehabilitation Act, does not discriminate against handicapped persons.

# **NOTES**

# **NOTES**

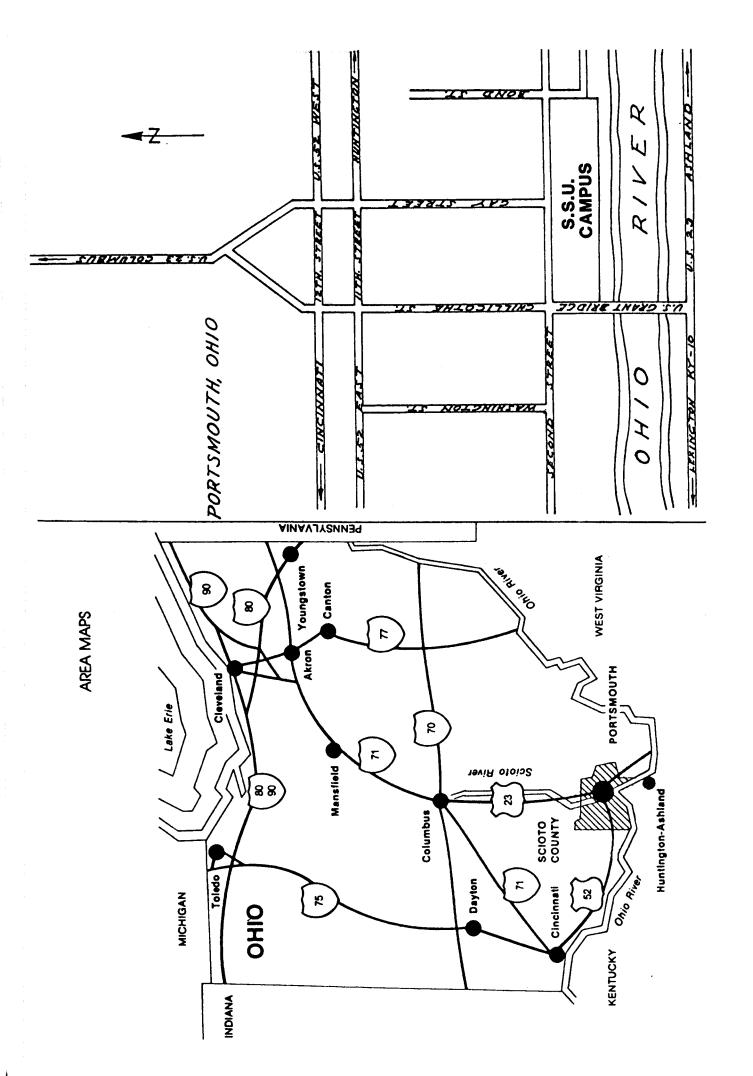
# **NOTES**

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# Shavnee State Universit

Portsmouth, Ohio 45662 • Phone (614) 354-3205



Shawnee State University Portsmouth, Ohio 45662

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