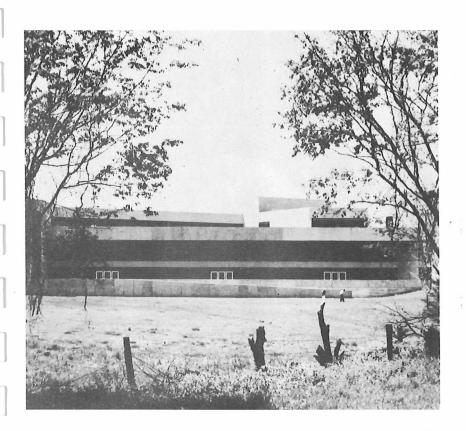


# **ROANE STATE COMMUNITY COLLEGE**

HARRIMAN, TENNESSEE 37748



# **GENERAL CATALOG 1979-1980**

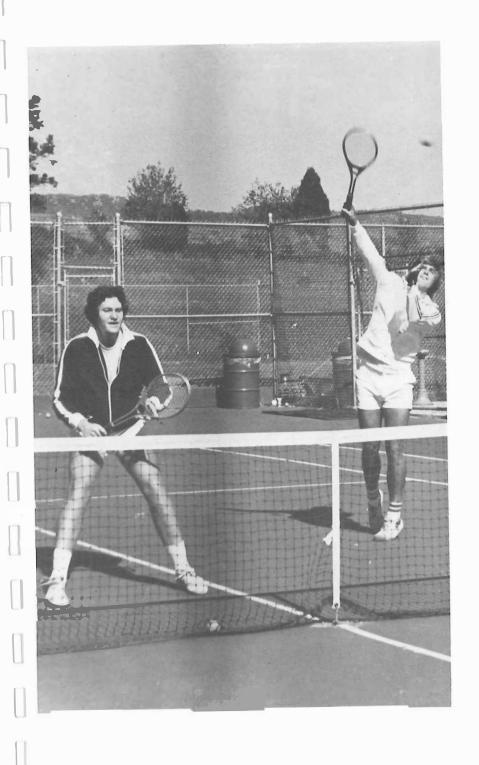
Roane State Community College is an Institution of Higher Education of the Tennessee State Board of Regents; accredited by the Southern Association of Colleges and Schools; an institutional member of the American Association of Community and Junior Colleges, the Southern Association of Junior Colleges and the Tennessee College Association; approved by the State Department of Education. Courses are approved by the State Approving Agency for Veterans Training.

Roane State Community College began the first session of its educational operation on September 20, 1971.

Vol. 9 No. 1 1979









The 1978-79 Raiderettes, Champions, Eastern Division TJCAA.



Raiderette tennis team members working out in the weight room.

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Roane State Community College offers its programs of instruction to qualified persons regardless of race, color, creed, sex or national origin.
An Equal Opportunity/Affirmative Action Employer
Telephone: (615) 354-3000
A NOTE TO VISITORS

The College administration, faculty, and staff welcome visitors to the campus. The administrative offices are open Monday through Friday, 8:00 a.m. until 5:00 p.m. The Admissions Office and Business Office are open from 9:00 a.m. to 12:00 p.m. on Saturdays.

# **ACADEMIC CALENDAR**

# School Year 1979-1980 SUMMER QUARTER 1979\*

# **First Session**

June 11 Oak Ridge Registration June 12 Campus Registration June 14 Classes begin June 19 Last day to add classes or register late July 4 Holiday—Independence Day July 6 Last day to withdraw from classes July 6 Last day to change from audit to credit or credit to audit July 20 Last class	
Second Session	
July 23	
August 27	
Full Term	
June 11	
August 24	
FALL QUARTER 1979	
September 24. Oak Ridge Registration September 25. Campus Registration September 27. Classes begin October 4. Last day to add classes or register late November 9. Last day to change from audit to credit or credit to audit November 9. Last day to withdraw from classes November 22-23. Thanksgiving Holidays December 7. Last class December 10. Grades due in Admissions Office	

<sup>\*</sup>See page 40 for registration procedures and fees for Summer Quarter.

# WINTER QUARTER 1980 January 2 ......Oak Ridge Registration

January 3
February 18. Last day to withdraw from classes March 14. Last class March 17. Grades due in Admissions Office March 18, 19, 20, 21 Staff development and/or class make-up
SPRING QUARTER 1980
March 24 Oak Ridge Registration March 25 Campus Registration March 27 Classes begin April 3 Last day to add classes or register late May 8 Last day to change from audit to credit or credit to audit May 8 Last day to withdraw from classes June 4 Last class June 6 Grades due in Admissions Office June 7 Graduation
SUMMER QUARTER 1980*
First Session
June 12
Second Session
July 22

July 24	Last day to add classes or register late
August 12	Last day to withdraw from classes
August 12	Last day to change from audit to
	credit or credit to audit
	Last class
August 27	

# Full Term

June 12	Oak Ridge Registration
June 13	
June 16	
June 23	
July 4	
July 28	
July 28	Last day to change from audit to
	credit or credit to audit
August 25	Last class
August 27	
3-2-	

<sup>\*</sup>See page 40 for registration procedures and fees for Summer Quarter.

# STATE BOARD OF REGENTS

# Statutory

Honorable Lamar Alexander, Chairman Governor of the State of Tennessee, Ex-officio

Dr. Roy S. Nicks, Chancellor

Mr. Edward A. Cox The Commissioner of Education, *Ex-officio* 

Honorable Mr. Clyde N. York The Commissioner of Agriculture, *Ex-officio* 

Dr. G. Wayne Brown, Executive Director Tennessee Higher Education Commission, Ex-officio

## NAMED FROM CONGRESSIONAL DISTRICTS AND AT-LARGE

Mr. James H. Jones, Jr., Vice Chairman	sant
Mr. Dale Glover	bion
Mr. William W. Farris	phic
Mrs. Mildill W. Fdills	פוווט
Mrs. Johnella H. Martin	ville
Dr. Claude C. Bond	oga
Miss Ella V RossJohnson	City
Mr. Scott MayfieldAth	iens
Mr. George M. Klepper, Jr	phis
Mr. Scott Mayfield	vald
Mr. David WhiteKnox	ville
Mr. J.C. Eoff, Jr	oma
Mr. Van L. Riggens Jr. (Student Member)	over



(Seated) Johnella H. Martin, Dale Glover, Chancellor Roy S. Nicks, Governor Lamar Alexander, James H. Jones, Jr. (Vice Chairman), J. C. Eoff, Jr., Claude C. Bond, Van L. Riggens (Student Member).

(Standing) J. Howard Warf, Scott Mayfield, William W. Farris, George M. Klepper, Jr., David White, Kenneth Ezell, G. Wayne Brown, Edward A. Cox, Clyde N. York.

# **Executive Officers**

Executive Officers	
President CUYLER A. DUNBAR Dean of Instruction HAROLD L. UNDERWOOD Dean of Administrative Services FRED H. MARTIN Dean of Student Personnel Services WALTER'S PATTON Business Manager J. ALTON JOHNSON Director of Personnel and Affirmative Action JOEL G. ZACHRY Administrator, Oak Ridge Site JAMES L. NAVE	Charles
Administrative Officers	
Assistant Director of Admissions Assistant Librarian Associate Dean of Career and Continuing Education Coordinator of Off-Campus Instruction Director of Academic Advisement Director of Admissions and Records Director of Athletics Director of Community Services Director of Computer Services Director of Guidance Director of Public Information Director of Resource Development Director of Scholarships, Financial Aid, and Veterans Affairs Accord  Alm Accord  MARGORIE H. CALVERT MARGORIE H. CALVERT MARGORIE H. CALVERT MARGORIE H. CALVERT W. CARROLL MARSAUS  W. CARROLL MARSAUS  WARROLL MARSAUS  CEBIK DIRECTOR OF Admissions and Records LOUISE R. GREENE DIRECTOR OF Community Services PAUL E. GOLDBERG DIRECTOR OF Computer Services GERALD H. NELSON DIRECTOR OF GUIDAN H. ISABEL DIRECTOR OF GUIDANCE DIRECTOR OF GUIDANCE DIRECTOR OF Scholarships, Financial Aid, and Veterans Affairs WAYNE L. BREAZEALE Librarian JOHN R. NEEDHAM Senior Accountant Superintendent of Maintenance and Security KINCH M. YORK  Alm Accord	
Division Chairpersons	
Chairperson, Division of Education (Acting)	TA = (=F
Department Heads	1700
Department Heads  Coordinator of Allied Health Programs	Muchan

# **ADMINISTRATION AND FACULTY**

ABUNGU, CORNELIO O
B.A., Jarvis Christian College—Mathematics M.S., East Texas State University—Mathematics
Ed.D., East Texas State University—Educational Administration (1975)
ALLEN, PHILLIP
B.S., Western Kentucky University—Physical Education M.S., University of Tennessee—Recreation (1971)
ANDREWS, REBECCA PARKS
ATKINSON, EDWARD R., JR
BAILEY, LEONARD C
BARNES, DELORISE C
BARNES, RICHARD VERLE
BILBREY, JUNE A
BOULDIN, ANNE POWERS
B.F.A., University of Tennessee M.S., University of Tennessee—Art Education (1977)
BOULDIN, C. LARRY
BREAZEALE, WAYNE L
Financial Aid, and Veterans Affairs.  B.S., University of Kentucky—Business Administration  M.S., University of Tennessee—Guidance
Ph.D., University of Tennessee—Educational Psychology and Guidance (1976)
BROWN, JAMES E

BRYANT, GAY D.  B.S., West Georgia College—Business E M.S., University of Tennessee—Business	ducation
BYRNE, JANET O.  B.S., Tennessee Technological University M.S., University of Tennessee—Child and	y—Home Economics Education
BYRNE, THOMAS E	y—Biology
CALVERT, MARJORIETH.  B.A., Skidmore College—Psychology M.L.S., Rutgers University—Library Servi CCBK, WARY FELEN  A.A., Howard County Junior College B.S.H.E., Howard County Junior College-M.S., Howard County Junior College—He Ed.S., University of Georgia—Consumer	ce (1970)Coordinator of Off-Campus Instruction —Home Economics Education busing and Furnishings
CHARTON, FRANK L	Studies iphy
CHRESTMAN, SHERRY H	
CHISM, PATRICIA LA.A., University of Florida—General B.A., University of Florida—Education M.Ed., University of Florida—Education (	
CHRISTIAN, ALEETA P A.B., Birmingham-Southern College—Re M.S., University of Tennessee—Adult Edu	ligion and Philosophy, Spanish
CHRISTIAN, FLOYD L	S
COOPER, HENRY H.  B.S. University of Tennessee—Communion M.S. University of Tennessee—Education Additional Graduate Work, University of	cations nal Administration and Supervision (1974
DABBS, BETTY H.  B.S., University of Tennessee—Home Ec M.S., University of Tennessee—Nutrition	onomics
DAVIS, BEULAH A.  B.A., Carson-Newman College—English M.A., East Tennessee State University—E Ed.S., George Peabody College—English	English h (1972)
DAVIS, PATRICIA H.	Child Cen
B.S., University of Tennessee—Early Chi DODSON, JAMIE F	Accountar

DOYLE, JAMES A
DUNBAR, CUYLER A
DUNFORD, G. GARY
EDWARDS, LINDA M
EISON, JAMES A
FISHER, BRUCE A
FISHER, NANCY M
FAUST, ERCILLE H
FRITTS, HARRY E
GARNER, SUSAN A
GEBBIA PHILIPP. Instructor of Sociology B.A., Tusculum College—Sociology M.A., East Tennessee State University—Sociology (1973) Additional Graduate Work, University of Tennessee

GLOVER, IRVING T
GOLDBERG, PAUL E
GREENE, LOUISE R
Additional Graduate Work, University of Tennessee HAMMOND, JAMES M
B.A., Tennessee Wesleyan—English M.A., Middle Tennessee State University—English (1978)
HEIDINGER, GARY L
<ul> <li>M.A., George Peabody College—History (1965).</li> <li>Additional Graduate Work, University of Mississippi, Auburn University,</li> <li>Alabama A &amp; M University, and University of Tennessee</li> </ul>
HIDUKE, GAIL P
HOAGLAND, JUDY K
HOAGLAND, WILLIAM M
HOLDER, MABRE M
HOWARD, BENJAMIN S
Ph.D., University of Georgia—Comparative Literature (1972) Additional Graduate Work, University of North Carolina and Ludwig-Maximilians Universitat, Munich, Germany
HOWARD, REBECCA M
HOWFIL ROMACO
ISABEL, LINDA H
M.S.E., Arkansas State University—Guidance (1972)

JENKINS, MARGARET G
B.A., University of Tennessee—English M.A., University of Tennessee—English (1972)  LEARINS, SHARON C
B.S., North Georgia College—Business Administration (1959)
JONES, KATHY R
B.A., David Lipscomb College—Speech M.Ed., Middle Tennessee State University—Reading (1975)
JORDAN, BERNARD E
JOYCE, JAMES A
KARR, CLAIRE E
A.B., Connecticut College for Women—History M.A.T., Boston College—History (1972)
KENNEDY, STEPHEN D
KIRKPATRICK, MELVIN A
KLIMA, B. BARTLEY
P.E.
KNOX, MARTHA M
KRING, JAMES B
KUEHN, FAYE
M.S., University of Tennessee—Communications (1967)  EANDERS, ANDY G
Admissions Counselor B.S., Tennessee Technological University—Health and Physical Education M.A., Tennessee Technological University—Health and Physical Education (1975)

LIGGETT, JOY E
Associate Professor of Political Science
B.A., Mississippi College—Political Science M.A., University of Mississippi—Political Science, Constitutional Law (1962) Additional Graduate Work, Auburn University
MARTIN, FREDRIC H
Ed.D., University of Tennessee—Curriculum and Instruction (1972)
MINTER, ANNE P
and Science  Professor of Chemistry
B.S., Georgia College at Milledgeville—Chemistry M.A., Duke University—Microbiology Ed.D., University of Tennessee—Science in Higher Education (1973)
MOORE, ALICE A
MOORE, MICHAEL L
MULLINS, C. DAVID, JR
M.S., University of Tennessee—English Education (1973)  MURRAY, WILLIAM P
M.S., University of Tennessee—Chemical Engineering (1970) Additional Graduate Work, University of Tennessee
NAMKUNG, AGNES I
NAVE, JAMES L
Roane State-Oak Ridge
B.A., Emory and Henry—Physical Education M.S., University of Tennessee—Physical Education Ed.D., Auburn University—Education Administration (1977)
NEEDHAM, JOHN R

NELSON, GERALD H
NICHOLS, BRENDA
B.S., University of Tennessee—Medical Technology (1974)  Additional Graduate Work, University of Tennessee Center for the Health Sciences—Medical Technology
B.S., Valparaiso University—Physical Education, Geography M.A., Wayne State University—Geography (1970) Additional Graduate Work, Southern Illinois University
PARSONS, STEVE J
PATTON, WALTER'S
PETERSON, STEPHEN J
POI:LARD, OWEN-J
PORTERFIELD, DELLA N
POULIN, GERALD D
RANDOLPH, HELEN E
RENNIE, NANCY W
RUDOLPH, JOHNNIE J
SAFDIE, ROBERT

B.S., Springfield College—Physical Education M.Ed., Florida Atlantic University—Physical Education Ed.D., University of Tennessee—Physical Education (1976) A.A., Broward College—Respiratory Therapy Technology (1971) Additional Work, University of Kentucky—Respiratory Therapy Technology SHREVE, JOHN F. .... Assistant Professor of Fire Science Technology A.S., Oklahoma State University—Fire Protection Technology B.S., Oklahoma State University—Industrial Education M.S., Oklahoma State University—Industrial Education (1964) B.A., University of North Carolina—History M.A., Vanderbilt University—English, History (1967) Additional Graduate Work, University of Tennessee B.A., Blue Mountain College—Social Science, History M.S.S., University of Mississippi—History, Political Science (1971) B.A., Union College, Kentucky—Mathematics M.M., University of Tennessee—Mathematics (1974) B.S., University of Tennessee—Psychology M.S., University of Tennessee—Educational Psychology (1974) Additional Graduate Work, University of Tennessee B.S.N., Emory University—Nursing M.S.N., Emory University—Adult Health Nursing (1977) Additional Graduate Work, Emory University—Nursing B.S.E.E., University of Tennessee—Engineering (1974) Additional Graduate Work, University of Tennessee B.S., Eastern Kentucky University—Law Enforcement M.S., Eastern Kentucky University—Criminal Justice Education (1976) Assistant Professor of Business B.S., University of Tennessee—Marketing M.B.A., University of Tennessee—Industrial/Personnel Management (1976) Additional Graduate Work, University of Tennessee B.S.E.E., Tennessee Technological University—Electrical Engineering (1966) THOMPSON, JOANN W......Guidance Counselor B.S., Tennessee Technological University—Health and Physical Education M.S., University of Tennessee—Guidance (1961) Additional Graduate Work, University of Tennessee Training Program B.S., University of Tennessee—Secondary Education M.S., University of Tennessee—Adult Education (1977)

UNDERWOOD, HAROLD L
WATERS, MICHAEL L
WILLIAMS, DAVID H
B.S., Journalism (1973)  WILLIAMSON, JAMES E
WORKS, LARRY P
WRIGHT, WILLIAM B
YATES, WILLIAM B
YORK, KINCH MSuperintendent of Maintenance and Security Memphis State University
ZACHRY, JOEL G

## **COLLEGE COMMITTEES**

Academic/Curriculum Council
Admissions and Retentions Committee
Athletic Committee
Awards and Graduation Committee
Cafeteria Committee
Community Services Committee
Discipline Committee
Executive Council
Faculty Council
Financial Aid Committee
Library Committee
Professional Development Committee
Publications Committee
Social, Concerts, Lectures Committee

## THE PRESIDENT'S ROUND TABLES

The President of Roane State Community College periodically schedules an "open hour" for student organization officers and any other interested members of the student body. The student round table is scheduled weekly in the student center.

An "open hour" for faculty to discuss matters of concern is scheduled weekly, also. The President's Round Table for Faculty is scheduled in the faculty office areas.



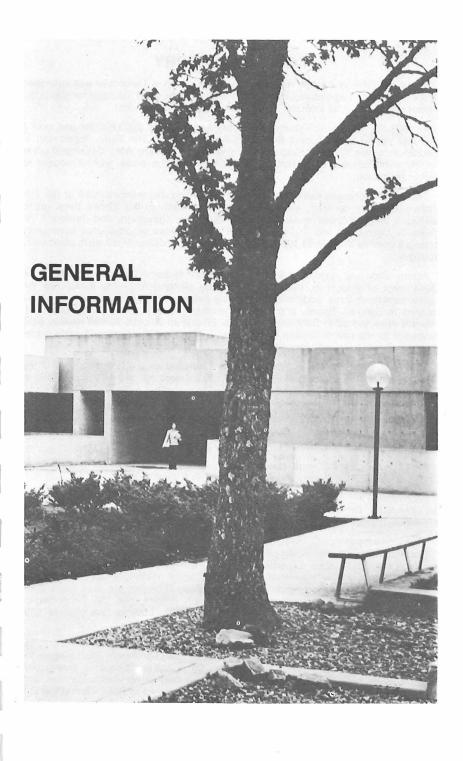
Groundskeeper Nancy Rennie discusses types of cuttings and their possible use with her landscape architecture class.



Admissions and registration procedures have been simplified for the convenience of the student.







# **COLLEGE HISTORY**

In 1957 the Pierce-Albright report on higher education in Tennessee was submitted to the Tennessee Legislative Council. This report emphasized the need for additional higher education to be available to the typical Tennessee resident.

In 1963 the Tennessee General Assembly appropriated \$200,000 for use over a two-year period to implement the Pierce-Albright report. The State Department of Education, under the leadership of Commissioner J. Howard Warf, developed plans for the establishment of community colleges to service areas without access to higher education.

The 1965 Tennessee General Assembly authorized the establishment of the first three community colleges, one to be located in each of the State's three grand divisions. Sites of these institutions were Columbia, Cleveland, and Jackson. The cities of Dyersburg and Tullahoma were the locations of additional community colleges opened in 1969. In 1970 Morristown was the location of the sixth community college.

Acting upon the recommendation of Governor Buford Ellington and the State Department of Education, the 1969 Tennessee General Assembly authorized the establishment of three additional community colleges. These colleges were to be located in Sumner, Roane, and Shelby counties. In July 1969, Commissioner J. Howard Warf and other State Department of Education officials visited various sites proposed for the new college in Roane County. After appropriate studies were made, a site on Patton Lane was chosen for the location of the institution.

In May of 1970, Dr. Cuyler A. Dunbar was selected as the first president of the College; and in the late summer, temporary offices were opened on Ruritan Road in South Harriman.

When bids for construction were opened in August 1970, the low bid was approximately \$700,000 higher than the amount of available funds. Subsequently, a decision was made by State Department of Education officials and College administrative personnel to open in temporary quarters in the fall of 1971.

Bids for construction were opened again in June 1971, and construction was begun in July 1971. The building was occupied in August 1973.

Groundbreaking for the second building on the Roane State campus was held in January 1977. This three-story Technologies Building, which houses the college's expanding career education programs and personnel, was occupied in December 1978.

Construction on an additional package of buildings was begun in June 1978. This package, called Campus Expansion Phase II, consists of a Library/Learning Resources Center and a Maintenance Building/Central Heating Plant. Both of the buildings included in the Campus Expansion Phase II project are scheduled to be completed during 1979. This second expansion project, like the Technologies Building, will greatly improve the services which the college can offer to both students and the community.

These new facilities at Roane State are becoming increasingly important due to the tremendous growth of the college. The Fall Quarter 1978 enrollment was up again for the seventh straight year. During this Fall Quarter, 3,223 students were enrolled for credit courses, with more than 800 students enrolled in non-credit courses and workshops. This made over 4,000 persons who were served at RSCC during the Fall Quarter.

#### Location

The campus of Roane State Community College consists of 104 acres located between the cities of Harriman, Kingston, and Rockwood in Roane County, Tennessee. The permanent site is near the intersection of Patton Lane and U.S. Highway 70. The campus is easily accessible from Interstate 40 and U.S. Highways 27 and 70.

#### **PURPOSE**

The educational offerings of Roane State Community College are based upon the belief that development of the individual for a useful and productive life in a democratic society is a primary obligation of the public educational system.

Roane State Community College accepts as its purpose the development of the cultural, intellectual, physical and vocational resources of the people of the surrounding area through qualified teaching, professional counseling and guidance

and supplementary services offered to students and community.

Roane State Community College offers day and evening programs combining general education and technical education sufficiently flexible to provide for the changing educational needs of the community. The program is fourfold:

- To serve those who wish to transfer and complete a four-year college education;
- (2) To serve those who wish to complete their formal education upon graduation from Roane State Community College;
- (3) To serve the entire community through a program based on community needs and demands; and
- (4) To offer remedial programs for those students in need of intensive preparation for college level work.

Specifically, Roane State Community College attempts to fulfill its role in the educational process by:

- (1) Promoting a liberal admissions policy:
- (2) Developing and maintaining a broad curriculum of superior quality;
- (3) Supporting a position of low fees for its students;
- (4) Maintaining a fundamental awareness of the area it serves;
- (7) Fatablishing a fundamental awareness of the area it serves,
- (5) Establishing adequate articulation with four-year institutions;
- (6) Developing reasonable vocational and occupational objectives; and
- (7) Encouraging more effective use of leisure time.

Roane State Community College accepts the philosophy that a community college is not merely two years of continuing high school or just the first two years of college but is a separate entity. Roane State Community College recognizes that students have differing learning characteristics which require varied instructional techniques, and the College endeavors to provide the leadership which will enable each individual to develop and mature toward the realization of his/her potential. Thus, students are encouraged to participate actively in the social, cultural and intellectual activities of the College and the community.



Individualized instruction and personal attention to each student's needs make developmental studies classes useful to many Roane State students.



# **ADMISSIONS AND RECORDS**



# **Admissions**

Roane State Community College subscribes to the "open-door" policy for admission. Prospective students seeking admission to complete courses for college credit must meet the following requirements.

#### ADMISSION REQUIREMENTS

- Graduate from high school or receive a GED high school equivalency diploma and file with the Office of Admissions an official high school transcript or an official copy of GED scores.
- File an application for admission and submit a non-refundable application fee of \$5.00. The application form must have all appropriate spaces completed. Failure to complete accurately all appropriate spaces may result in expulsion from the college.
- 3. File the signed Health Information Report and/or evidence of a recent physical examination. Students who have special health problems must file this information with the college clinic. Part-time students shall have the option of signing the medical waiver, and students who enroll only in courses taught at off-campus locations are exempt from any health information requirement.
- 4. All freshmen applicants are strongly urged to take the American College Testing Program (ACT) battery and have their scores certified directly to the Admissions and Records Office, Roane State Community College, Harriman, Tennessee 37748. This test should be taken preferably on one of the fall testing dates during the senior year of high school. Information on the ACT may be obtained from the high school counselor, the Counseling Office at RSCC or by writing to American College Testing Inc., P.O. Box 168, lowa City, lowa 52242. Roane State Community College's ACT Code Number is 3985. This number should be used when requesting that scores be sent to RSCC. Students may enter without having taken the ACT, but they may be required to take the ACT battery during their first quarter of attendance. The sole purpose of these tests is to assist the student in choosing the best academic schedule.
- 5. Students who have graduated from a Tennessee high school and who have not earned one credit in American History while in the high school program are required to complete 9 quarter hours of American History during their first 45 hours of enrollment at Roane State. This requirement does not affect the student who enters the college with a G.E.D. certificate.

# **ADMISSION POLICIES FOR ALLIED HEALTH PROGRAMS**

There are special admission policies for Allied Health programs, which include Dietetic, Medical Laboratory Technology, Medical Records Technology, Radiologic Technology, and Respiratory Therapy.

- 1. The applicant must be a high school graduate, ranking in the upper half of the graduating class or attaining a G.E.D. score above the 50th percentile.
- The applicant must attain a composite score of 18 or above on the American College Testing Program (A.C.T.) or attain a composite score at or above the 50th percentile on the College Qualification Test (C.Q.T.).
- A student who does not meet the above requirements may be considered after completion of 12 hours of general education courses required in the program with a GPA of 2.5 or better.

- 4. The applicant must be interviewed by the Program Director of the specific program or a designated representative.
- A history and physical examination is required prior to beginning the clinical education. Forms are available from the college nurse or from the Coordinator of Health Occupations.
- Respiratory therapy applicants may be required to take additional preadmission testing.
- Final selections of students will be made by the Health Occupations Admissions Committee.

# TRANSFER STUDENTS FROM OTHER COLLEGES AND UNIVERSITIES

- Degree seeking applicants who have attended another college or university will be considered transfer students and will be required to furnish transcripts of all previous college work from each institution they have attended.
- Transcripts are not accepted from students. A certified copy must be mailed directly to the Office of Admissions, Roane State Community College.
- 3. Transfer students will be admitted if they meet the minimum scholastic standards required by the College. Special cases will be evaluated by the Admissions Office.
- 4. In special cases an applicant who wishes to transfer to Roane State Community College may be allowed to register prior to the receipt of official transcripts. It is mandatory, however, that all transcripts be received during the first quarter of enrollment. No student may register for a second term if the admissions file is not complete.
- Credits for courses not corresponding with the curriculum at Roane State will be entered on the transcript as elective credit.
- If a transfer student has accumulated less than 24 quarter hours, an official high school transcript is also required.

When all requirements have been met, the applicant may be admitted to the College as a candidate for a degree and receive college credit for courses completed.

#### HOW TO APPLY FOR ADMISSION

All correspondence concerning admissions should be addressed to:

Director of Admissions and Records

Roane State Community College

Harriman, Tennessee 37748

A candidate for admission should request application blanks early enough to allow ample time for required materials to be forwarded to the Director of Admissions and Records.

When all admission papers have been received in the Office of Admissions and Records, the applicant will be sent a letter indicating that he/she has been accepted for admission, or he/she will be advised by letter that further action is necessary in order to establish eligibility for admission. Applicants will be advised when to appear for testing, counseling, pre-registration and registration.

### READMISSION OF FORMER STUDENTS

Former students who wish to return to the College after an absence of one quarter or more mustfile a formal application for readmission. Application forms, available from the

Office of Admissions and Records, must be completed in ink or by typewriter and returned to the Director of Admissions and Records. If the student has enrolled at another college since last attending Roane State Community College, he/she must have a transcript from the other college submitted and approved before he/she may reenter. Applications will receive favorable consideration only if the applicant is eligible for readmission under all college regulations.

# ENROLLMENT OF ELDERLY AND TOTALLY DISABLED PERSONS

Persons sixty years of age or older who are domiciled in Tennessee may audit courses without payment of course fees if space is available in the desired class.

Persons sixty five years of age or older and totally disabled persons who are domiciled in Tennessee, are eligible to enroll in courses for credit upon payment of service fees of \$3.50 per quarter hour, not to exceed \$30.00. Special fees will be assessed.

All students must complete the institutional application form and pay the application fee.

#### STUDENT CLASSIFICATION

# **Degree Student**

A student who has fulfilled admission requirements and is pursuing an Associate Degree program is admitted as a degree student. For administrative purposes, a student will be classified as a freshman until the completion of 42 quarter hours; a student who has completed 42 quarter hours or more will be classified as a sophomore. Those not accepted as degree students will be classified as special students.

#### Special Student—Credit

Persons desiring college credit, but who are not working toward a degree at Roane State Community College, may be admitted as special students. These students must submit an application form, the required medical form, and evidence of high school graduation or a GED diploma. If such students have already earned a degree, or have completed some work toward a degree at another institution of higher education, a college transcript in lieu of the high school transcript or GED diploma may fulfill this requirement.

## Special Student-Non-Credit

Persons desiring to take courses offered in the College program for audit, or who do not meet all of the admission requirements, will be admitted as special students. Students seeking admission to the College for the purpose of attending special courses, seminars, or other non-credit offerings will be admitted as special students.

# Special Student—Adult

A student who has passed his/her twenty-first birthday and who does not meet requirements for a regular student may be admitted as an adult-special student subject to the following guidelines:

- The applicant must submit an application for admission and a five dollar application fee.
- 2. The applicant may not enroll as a full-time student.
- 3. The applicant may not accumulate more than 24 hours of credit while enrolled as an adult-special student.

- 4. After 24 quarter hours have been attempted, if the student has a 2.00 GPA or better, the student may apply to the Director of Admissions for reclassification as a regular degree student. If the reclassification request is granted, up to 24 hours of credit may be applied toward a degree program at Roane State Community College. If, after attempting 24 credit hours, the adult-special student does not have a 2.00 average, the student may not enroll in additional courses until the GED test has been successfully completed.
- If the student applies for reclassification to a regular degree student prior to the successful completion of 24 quarter hours (2.00 GPA or better), the student must submit evidence of high school graduation or successful GED scores (a composite score of 45 or better).

An adult who presents evidence of having passed his sixtieth birthday will be admitted as an adult-special student subject to the following guidelines:

- The applicant must submit a completed application form and a five dollar application fee.
- The student may be permitted to enroll in courses on an audit basis when class space permits. No course fees are required for Tennessee residents under these circumstances.
- 3. Regular fees must be paid for all community service courses.

# **Adult Special Veteran**

Veterans and other eligible persons who are not high school graduates or who have not passed the high school level General Education Development test according to the standards set by the State of Tennessee, will be classified Adult Special Veteran.

Students classified as Adult Special Veteran will be required to take the College Qualification Tests and the Nelson-Denny Reading Test. The results of these tests, previous academic record, and the declared major (Associate of Science or Arts) of the student will be reviewed by a college counselor to determine which remedial courses he/she must complete satisfactorily before admission as a regular degree student. No credit toward an Associate degree will be earned while the student is classified as Adult Special Veteran.

## Transfer Student

Admission as a transfer student will be based upon the student's high school record and his/her success in college. Critical consideration will be given to the conditions under which he/she is withdrawing or has withdrawn from another institution. Normally, transfer students will be admitted who can show evidence of honorable withdrawal or dismissal. These students must be eligible for readmission at the institution or be recommended for admission by the institution where they matriculated. Special cases will be evaluated by the Admissions Office.

Transfer students who are residents of Tennessee will be given first consideration. Out-of-state transfer students will be considered if space is available. The conditions resulting in their request for transfer will be studied and recommendation made by the appropriate committee.

## **Transient Student**

The person seeking to be admitted as a transient student must complete the application form for transient students. The transient application is in addition to the

regular form. The form contains a provision for written approval and prior commitment from the student's college to accept the credit earned at Roane State Community College.

#### International Student

An applicant who is a citizen or a permanent resident of a country other than the United States is classified as an international student. The following are admissions requirements for international students in addition to those outlined for United States citizens and Tennessee residents:

- All applicants whose native language is not English are required to furnish test results of the Test of English as a Foreign Language (TOEFL). A minimum score of 450 on this test is required.
- 2. In addition to satisfactory TOEFL scores, all international applicants are required to take an English placement test at Roane State Community College for the purpose of placement in English courses. This test is administered by the Humanities Division. A personal interview is also a part of the placement procedure.
- 3. All transcripts, test scores, and other credentials must be accompanied by an official English translation of these documents and must be on file in the Office of Admissions and Records at least sixty days prior to the beginning of the term in which the applicant wishes to enroll.
- 4. Evidence of financial resources adequate for all expenses for at least one year of enrollment. (A statement verifying these resources from a bank in the United States will fill this requirement).
- The international student must be familiar with the regulations of the Immigration and Naturalization Service and assume responsibility for complying with these regulations.

# **ADVANCED STUDIES**

## (for seniors in high school)

Upon completion of the junior year in high school a student may enroll in courses under the Advanced Studies plan. Conditions of this plan are as follows:

- The student must have a cumulative average of "B" or above or rank in the upper 25% of the class, and the student must be nominated by the high school principal and/or counselor.
- 2. The course load may not exceed 10 quarter hours except in cases where a sequence may be 12 quarter hours.

Exceptions to the above policy must be approved by the high school principal concerned and the Dean of Instruction at Roane State Community College.

Courses satisfactorily completed will count as credit for those who submit a high school transcript showing evidence of high school graduation.

Exceptionally qualified students may continue in advanced studies during their senior year of high school if recommended by the high school principal. Courses for such students should be selected by the College, and the student given released time from the high school to attend classes of the College.

#### ADVANCED STANDING

#### **Course Exemption**

Advanced placement in foreign language classes will be based upon the student's previous studies. Those who have completed two years of a high school language with

"C" or better should enroll in the intermediate level of that language. They may, however, receive credit for the beginning level courses through departmental proficiency examinations.

In English, students with ACT scores of 25 or better may enroll for both English 1010 and 1020, attend English 1020, and receive six hours credit with the grade earned in English 1020.

#### **Advanced Placement**

Roane State also offers course credit for successful completion of Advanced Placement examinations administered by the College Entrance Examination Board to high school students. Course credit will be granted to students presenting Advanced Placement examination grades of three or higher. Inquiries concerning Advanced Placement should be forwarded to the Director of Admissions and Records.

# **Departmental Examinations**

- Students desiring to obtain credit by successfully completing departmentally designed examinations must apply to the appropriate department and arrange to take the examination.
- Students registering for a course for which credit is granted as a result of a proficiency test must present approval for this registration from the appropriate department.

#### **CLEP General Examinations:**

Have official scores sent from CEEB to the Office of Admissions and Records. An evaluation for possible credit will be made, and a copy of this evaluation will be mailed to the student. Credit in each area of the General examinations will be limited to the first course in a course sequence.

## **CLEP Subject Area Examinations:**

Have official scores sent from CEEB to the Office of Admissions and Records. An evaluation for possible credit will be made, and a copy of the evaluation will be mailed to the student.

# ACCEPT ABLE SCALED SCORES ON CLEPTESTS AND AMOUNT OF RSCC CREDIT HOURS AWARDED

CLEP GENERAL EXAMINATIONS:	Minimum Acceptable Score	Amount of Credit Hours Awarded
English Composition Humanities Mathematics Natural Science Social Science—History	497 489	3 3 3 3 3
CLEP SUBJECT EXAMINATIONS:	Minimum Acceptable Score	Amount of Credit Hours Awarded
Afro-American History American Government American History* American Literature	50	3 3 9 6

	Minimum Acceptable Score	Amount of Credit Hours Awarded
Analysis and Interpretation of		
Literature	51	6
Anatomy/Physiology/		
Microbiology	50	16
Biology Calculus with Elementary	49	12
Functions	49	6
College Algebra	49	3
College Algebra: Trigonometry	49	5
College Composition	50	9
College French (Level 1)	44	9
College French (Level 2)	56	9
College German (Level 1)	44	9
College German (Level 2)	55	9
College Spanish (Level 1)	45	9
College Spanish (Level 2)	55	9
Computers and Data Processing.	48	3
Educational Psychology Elementary Computer Pro-	50	3
gramming: Fortran IV	51	3
English Literature	49	3
General Chemistry	48	12
General Psychology	50	9
Hematology	50	4
Human Growth and		
Development	51	3
Immunohematology and Blood		
Banking	50	2
Introduction to Business		
Management	50	3
Introductory Accounting	50	9
Introductory Business Law	51	3
Introductory Macroeconomics	50	3
Introductory Microeconomics	50	3
Introductory Micro- and		
Macroeconomics	49	3
Introductory Marketing	50	3
Introductory Sociology	50	9
Microbiology	49	4
Money and Banking	49	4
Statistics	50	3
Trigonometry	49	9
Western Civilization	50	9

\*Essay section required.

## TRANSFER OF CREDIT

Roane State Community College will accept credits transferred from accredited colleges. Certified transcripts of all previous records must be sent to the College at the time of application. Credits for courses not corresponding with the curriculum at Roane State Community College will be entered on the transcript as elective credits. Credit from an institution of higher education which is not fully accredited may be accepted provisionally if the institution is in the process of attaining accreditation.

No academic credit may be transferred to Roane State Community College from a non-accredited institution (an acceptable accrediting agency for an institution would be the Southern Association of Colleges and Schools).

Transfer grades have no bearing on the required average for graduation.

Veteran students who have more than one year of honorable military service may be awarded up to six hours of physical education activity credit and up to nine hours of Military Science credit. The veteran must present a copy of the DD 214 Form (if not on file) to the Office of Admissions and Records and file a petition for this credit.

## **CORRESPONDENCE AND EXTENSION CREDIT**

A student may not be enrolled at another college for correspondence or extension work while enrolled at Roane State unless special permission has been granted. All extension or correspondence work in progress upon admission must be reported to the Office of Admissions and Records at the time of the student's first registration. A maximum of 25 quarter hours correspondence and/or extension work may be applied toward degree credit. All correspondence or extension work must have the documented approval of the Director of Admissions and Records.

# **RECORDS**

Records of each student's grades are kept on permanent file in the Office of Admissions and Records. Since these records are permanent and are frequently referred to for the purpose of supplying information to legitimate sources, all students should be acutely conscious that they are building their future and that their good attitude and diligent study will stand them in good stead after graduation.

In all cases, student admission files must be complete prior to the end of the first quarter of enrollment. No student will receive grades or be permitted to reenroll until all necessary documents are received in the Office of Admissions and Records.

# SPECIAL STATE AND FEDERAL LEGISLATION FOR EDUCATIONAL PURPOSES

# Family Educational Rights and Privacy Act

This act provides for confidentiality of student records. No information contained in a student file may be released without the consent of the student. The only exception to this is information designated as directory information. This includes student name, address, telephone number, date and place of birth, major, dates of attendance, degree and awards, the most recent previous educational agency or institution attended, participation in school activities and sports, weight and height (for special activities). In addition, the act provides for student review under prescribed circumstances of his/her records.

Copies of the institutional policy are located in the Library and in the Office of the Dean of Students as well as the Office of Admissions and Records. Students may contact the Director of Admissions and Records for additional information or to request that Directory Information be withheld.

#### TRANSCRIPT OF CREDITS

In all cases, obligations to the College must be fulfilled before a transcript will be issued

#### REGISTRATION FOR COURSES

A student whose application is filed before the application deadline for any given quarter should, prior to registration, receive notification of registration procedures. The student will be assigned an advisor who will continue to assist with his/her education program. Students are expected to complete registration on the dates announced. They must observe the procedure specified at the time. Students are not officially enrolled until they have completed all the requirements of registration. Registration after dates established on the calendar may be completed by presenting an acceptable reason for delay and by payment of the late registration fee. Registration delayed beyond the period

established as the last date to register or add a class requires special permission from the Director of Admissions and may result in reduction of course load for the quarter.

#### CHANGE OF REGISTRATION

A student is allowed to change registration during the "Drop-Add" period at the beginning of each quarter. The following procedures are to be followed in adding or dropping courses:

- 1. Prepare a schedule adjustment form from the Admissions and Records Office.
- 2. Obtain advisor's signature.
- 3. Present the completed form to the Business Office and pay appropriate fees.
- Return two (2) copies of form to the Admissions and Records Office and receive one copy which must be shown to the instructor whose course is being added.

Failure to follow these procedures will result in an "F" in a course the student did not attend or the student taking a course without receiving credit.

## CANCELLATION OF SCHEDULED CLASSES

Any scheduled class may be discontinued by the College. The right is reserved to cancel when the number enrolled is deemed insufficient.

#### STUDENT LOAD

The average quarter hour load for a student should be 16 quarter hours of credit per term. Individual programs may require more or fewer quarter hours load for a particular term. A full-time student is one who is carrying 12 or more quarter hours of credit.

Faculty advisors may approve overloads subject to the following guidelines:

- 1. Students with a 2.5 GPA may take up to 19 quarter hours credit.
- 2. Students with a 3.0 GPA or better may take up to 21 hours credit.
- Students desiring to take 22 quarter hours credit or more should have the approval of both the faculty adviser and the Dean of Instruction.
- Any exceptions to the above guidelines should have the approval of the Dean of Instruction.

## **GRADING SYSTEM**

The following grading system is used at Roane State Community College:

Grade	Quality Points Awarded Per Quarter Hour
A Outstanding	4
B Above average	3
C Average	2
D Passing but below average	1
F Failing	0

The scholastic standing of a student is expressed in terms of quality point ratio. A quality point ratio is the total number of quality points divided by the total number of quarter hours attempted, less the number of hours repeated. To meet degree requirements a student must maintain an over-all quality point average of 2.00.

Other markings which may appear on the grade report and/or transcript are as follows:

1	Incomplete
Ν	Audit: no grade or credit
NC	No credit—no grade
Р	In special cases, a grade of Pass may be used
R	Repeated
W	Withdrew
X	No grade reported

The grade "I" indicates that the student was passing at the end of the quarter but has not completed all the work of the course as required by the instructor. The student is thus on notice that he/she should contact the instructor immediately in an effort to complete course requirements. This "incomplete" must be removed during the succeeding quarter, with the exception of Summer Quarter. Courses attempted which are incomplete are reflected on the academic record as hours attempted for which there is no credit established. This in turn affects the quality point average in the same manner as a failing grade. Should the "incomplete" not be removed, the quality point averagewill continue to reflect the "I" as a failing mark and will be interpreted as such.

At the discretion of the Dean of Instruction, selected courses may be offered using a pass-fail grading system. A "P" indicates a passing grade in such cases. Students would receive 2.00 quality points per credit hour for a "P" and no quality points for an "F." In all cases, the student would have the option of being graded by pass-fail, or the standard "A, B, C, D, F" method.

# **Repeated Courses**

A student may repeat a course upon approval of his/her faculty advisor. The grade received in repeating the course supersedes all previous grades and is credited in the quarter in which the course is repeated.

In order that grade point averages may be adjusted appropriately, the student repeating a course must file a course repeat form with the Office of Admissions and Records.

Veterans or other eligible persons repeating courses for which they have a passing grade (D or higher) and for which they have been paid are cautioned not to claim this course for pay the second time.

#### **Course Substitutions**

Course substitutions require the approval of the student's advisor, the Division Chairperson, and the Dean of Instruction. A form for this approval is available from the Office of Admissions and Records and must be processed prior to registering for the course in question.

# GRADUATION

All students must complete the general requirements as prescribed by the College and specific requirements set forth for the Associate Degree sought. Each student must file an Intention to Graduate form in the Office of Admissions and Records before the beginning of the quarter in which the student expects to graduate.

Graduation exercises are held only at the end of the spring quarter. Students who anticipate completing their work during the current calendar year, whose grade point average is sufficient for graduation, and whose names appear on the official graduation roster, may take part in graduation exercises.

# **DEFERRED GRADUATION**

A student is permitted to graduate under a catalog under which he/she entered a program or under the catalog in effect at the time of graduation, provided that not more than five years have elapsed in the interim. If more than five years have elapsed, then the student must meet the requirements of the catalog in effect at the time of graduation.

## GRADUATION WITH DISTINCTION

Students who have fulfilled all graduation requirements, who have completed a minimum of forty-five quarter hours at Roane State Community College prior to their final quarter, and who have been in residence for a minimum of three quarters prior to their final quarter are eligible for designation as honor graduates. Those who have a quality point average of 3.25 and less than 3.50 will be graduated Cum Laude; those who have a quality point average of 3.50 and less than 3.80 will be graduated Magna Cum Laude; those who have a quality point average of 3.80 or above will be graduated Summa Cum Laude.

A transfer student, in order to be eligible, must have made the required average on all work taken at Roane State Community College and must, in addition, have an overall average which meets the honors requirements; the final average may in no instance be higher than that made at Roane State Community College. All grades for courses accepted for credit must be averaged in the grade point average to determine the honors graduation eligibility.

#### **DEAN'S LIST**

The Dean's List is the official medium for the institution to recognize outstanding academic accomplishment by students. Provision is made for recognizing full-time students who obtain the required quality point average for this honor. Full-Time—12 Credit Hours or more with 3.25-4.00 average.

# PROBATION AND RETENTION STANDARDS

A minimum quality point average of 2.00 is required for graduation from Roane State Community College.

# **Academic Deficiency**

A student who fails during any term to attain a cumulative GPA at or above the level indicated below for the credit hours attempted will be placed on academic probation for the subsequent term.

Quarter Hour Attempted	Minimum Cumulative GPA
0 - 21	No minimum
21.1 - 39.0	1.0
39.1 - 60.0	1.4
60.1 - 72.0	1.7
72.1 - 84.0	1.9
84.1 - and above	2.0

In order to remain in a health occupation program, the student has to obtain a grade of C or better in specialty courses. A "C" average must be maintained in related science courses.

# Academic Suspension

At the end of the next term of enrollment, a student on academic probation who has failed to attain either the above cumulative standard or a 2.0 GPA for that term will be suspended for one term.

Each student who is placed on academic suspension will be notified by the Admissions Office. Any student has the right to appeal to the Admissions and Retentions Committee (composed of faculty, staff, and student representatives) for reinstatement. The student should notify the Admissions Office if he/she wishes to process an appeal.

If the Committee grants the reinstatement, the conditions of the reinstatement imposed by the committee must be clearly stated. These may include reduced course load, a review of program objectives with the Director of Academic Advisement, regular meetings with a college counselor and/or regular progress reports to the academic adviser.

## **Grounds for Dismissal**

A student may be dismissed from the College for any one or more of the following reasons:

- 1. Failure to meet minimum academic standards as stated in the above section.
- 2. Conduct of an unacceptable nature (see student handbook).

## WITHDRAWALS AND HONORABLE DISMISSALS

Students finding it necessary to withdraw from the College should do so officially to maintain good standing and to assure readmission or honorable dismissal. Withdrawal procedures are as follows:

- 1. Initiate form in Admissions and Records Office.
- Secure clearance signatures (in sequence) from (1) Advisor (2) Instructor of any laboratory science course from which a student is withdrawing (3) Library (4) Admissions Office and (5) Business Office.
- 3. Return forms to Admissions Office.

After the drop deadline date, no student will be permitted to withdraw from the College and receive the grade of "W" unless documented proof of one of the following conditions exists, verifying that the mitigating circumstances developed after the drop deadline:

- Illness or injury of the student as verified by the RSCC student health service or the attending physician.
- Serious personal problems as verified in writing by the student's parents, spouse, minister or physician.
- 3. Necessary change in work schedule verified in writing by the student's employer.
- 4. New employment as verified in writing by the employer.

All equipment belonging to the College must be accounted for or paid for and all financial obligations met. If it is impossible for the student to take these steps in person, they should be taken by a parent or a person acting as an agent for the student. The student may withdraw from the College with the grade of "W" through the dates specified on pages 6 and 7 with the grade of "W." Withdrawal after this date must be approved by the Director of Admissions. A student who stops attending classes and fails to follow the proper withdrawal procedure will be carried on the roll until the end of the quarter and a grade of "F" assigned.

# SOCIAL SECURITY ADMINISTRATION

The Admissions and Records Office cooperates with the Social Security Administration by certifying that students eligible to receive Social Security benefits are enrolled at Roane State.



The college bookstore sells t-shirts and sweaters in addition to school supplies.



# BUSINESS INFORMATION AND EXPENSES



#### **BUSINESS REGULATIONS**

Tuition and fees are assessed and payable at the beginning of each quarter. Registration is not considered to have been completed until all assessed tuition and fees have been paid. Tuition and fees paid by check are not considered to have been paid until the check has cleared the bank. Students who have not met all financial obligations to the College will not be permitted to attend classes. No student will be permitted to re-enroll, graduate, or receive a transcript until all financial obligations to the College have been satisfied. All tuition and fees are subject to change by direction of the Tennessee State Board of Regents.

#### TUITION

Tuition is free to all residents of the state of Tennessee. Students classified as non-residents will be assessed tuition at the rate of \$28.00 per quarter hour, not to exceed \$334.00 per quarter. The definition of residency as determined by the State Board of Regents will apply. Information concerning residence classifications may be obtained from the Director of Admissions and Records. **Non-resident students will be accepted, if space permits.** 

#### MAINTENANCE FEE

All students, both resident and non-resident, will be assessed a maintenance fee of eight dollars per quarter hour, not to exceed \$90.00 per quarter.

# **ELDERLY AND DISABLED PERSONS**

Disabled persons and persons *sixty* years of age or older, who are domiciled in Tennessee, are eligible to enroll in courses for AUDIT without payment of tuition, maintenance, student activity or registration fees.

Disabled persons and persons *sixty-five* years of age or older, who are domiciled in Tennessee, are eligible to enroll in courses for CREDIT at the rate of \$3.50 per quarter hour up to a maximum of \$30.00.

Special fees (such as laboratory fees, graduation fees, parking fees, etc.) will be assessed at the regular rate. Arrangements should be made well in advance of registration day to provide documented evidence of disability or advanced age.

Enrollment of disabled or elderly students will be made on a space availability basis.

# VIETNAM CONFLICT VETERANS DEPENDENTS

All tuition, maintenance, activity and other fees are waived for the *children* of Vietnam conflict veterans if the conflict veteran *died* while serving in Vietnam or as a result of injury sustained while serving in Vietnam, or was officially declared missing in action or declared a prisoner of war in Vietnam. Documented evidence will be required.

## AUDIT FEE

Fees for courses being audited are the same as those taken for credit. Auditors are not required to take examinations and receive no credit.

# **COMMUNITY SERVICE COURSE FEES**

Fees for Community Service courses will vary with length of the course, cost of materials provided, equipment, or miscellaneous resources. Students enrolling for Community Service courses are not required to pay an application fee or late registration fee.

#### SUMMER QUARTER FEES

The Summer Quarter consists of a full-quarter term, two separate terms of approximately five weeks each, or three triple accelerated terms.

Students may register for the entire quarter, for the two separate terms, for three triple accelerated terms, or any combination thereof. Tuition and fees for the entire Summer Quarter are the same as for other quarters. Students are required to indicate at the initial enrollment for the Summer Quarter if they wish to be assessed for the full quarter at the rate of \$8.00 per quarter hour, not to exceed \$90.00, or if they wish to be assessed at the rate of \$8.00 per hour in which case a student taking a total of more than 12 quarter hours during the two separate terms would be required to pay more than the maximum of \$90.00. Once the student has indicated his/her election, he/she may not shift from one plan to the other. The Business Office will assist a student in selecting a plan that is to the advantage of the student.

#### OTHER FEES

- **Application Fee**—Each student applying for admission to the College for credit courses for the first time will be assessed a \$5.00 application fee. This fee is a one-time only fee, is not applicable to the maintenance fee, and is not refundable.
- Change of Schedule Fee—Students changing schedules after registration day will be assessed a fee of \$5.00. This fee is not refundable. Students withdrawing from school entirely are not required to pay this fee. The fee is not charged for changes that are necessary because of institutional action.
- **Graduation Fee**—Graduating students are assessed a fee of \$20.00 to cover the cost of a diploma and other related costs. This fee must be paid at the beginning of the quarter in which a student is scheduled to graduate. This fee is not applicable to certificate graduates. This is a one time fee and is not refundable.
- **I.D. Card**—There is no charge for the original I.D. card issued a student. A charge of \$1.00 will be made for replacing a lost I.D. card.
- Individual Instruction in Music—Quarterly fees for individual instruction in music are assessed as follows:
  - Full-time students 1 lesson per week \$20.00
    - 2 lessons per week \$30.00
  - Part-time students 1 lesson per week \$30.00 2 lessons per week \$60.00
- Late Registration Fee—Students failing to complete the registration requirements on the appointed registration day will be assessed a late registration fee of \$10.00. This fee is not refundable.
- **Liability Insurance Fee**—A yearly liability insurance fee will be required for students in the health occupation programs. The liability insurance will be purchased at a reduced group rate.

# Lock or Key Replacement Fee—\$3.00

- **Miscellaneous Fees**—A fee will be charged for courses utilizing some off-campus facilities. This fee will be based on the cost to the college for the rental of the facility. A fee may also be charged for some field trips. This fee is not refundable.
- Motor Vehicle Registration Fee—Faculty, staff, and students enrolled for over six hours registering vehicles during the fall or winter quarter will pay a fee of \$4.00 for each vehicle registered. Part-time students with six hours or less registering vehicles during the fall or winter quarter will pay a fee of \$2.00 for each vehicle registered. The decal(s) issued will be valid through the entire registration period.
  - Faculty, staff and students enrolled for over six hours registration period.

    Faculty, staff and students enrolled for over six hours registering vehicles during the spring or summer quarter will pay a fee of \$2.00 for each vehicle registered. Part-time students with six hours or less registering vehicles during the spring or summer quarter will pay a fee of \$1.00 for each vehicle registered. The decal(s) issued will be valid through the entire registration period.

Faculty, staff and students engaged in Community Service/Continuing Education (non-credit) courses only, will pay a fee of \$1.00 each quarter for each vehicle registered.

- Musical Instrument Rental Fee-\$5.00 per quarter.
- Returned Check Fee—A fee of \$5.00 is assessed for each check returned to the College by the bank. A student may contest this fee successfully by presenting a letter from the bank in which it is clearly indicated that the check was returned through error by the bank. The College reserves the right to refuse to accept a check for any purpose from persons who have developed a record of presenting checks that have subsequently been returned by their bank.
- Student Activity Fee-\$1.00 per quarter for Fall, Winter, and Spring Quarters for each credit student enrolled in classes at Roane State-Harriman and Roane State-Oak Ridge.
- **Transcripts**-There is no charge for a transcript. However, the college has the right to limit transcripts provided at any one time to a reasonable number.

#### **REFUNDS**

**Regular Sessions**–Students withdrawing from school entirely or dropping one or more classes may be entitled to a refund as follows:

75% of fees will be refunded for drops or withdrawals within 14 calendar days after the first official day of classes. The first official day of classes is determined by the official college calendar listed in the catalog as the day "classes begin."

100% of fees will be refunded for classes cancelled by the institution.

100% of fees will be refunded for drops or withdrawals prior to official registration.

100% refund in case of death of the registered student.

- **Summer Sessions**—Summer session refunds will be based on the above with short terms being prorated as a percentage of a regular term.
- Community Service Courses—Fees charged for Community Service courses are refundable in the following manner: (1) 100% refund if the class is dropped prior to the first class meeting, (2) 70% refund if the class is dropped after the first class meeting, but prior to the second class meeting, and (3) no refund is made after the second class meeting, for individual classes missed, or for programs of fewer than 10 contact hours. All refunds will be made promptly.
- **General Refund Policy**—No refund is due on courses which are dropped unless the sum of the remaining hours calculated at the hourly rate is less than the total amount paid for tuition and or maintenance fees.

Refunds are calculated from the date that appears on the official change of schedule form completed by the Office of Admissions and Records. Students should be careful to complete the official change of schedule in the Office of Admissions and Records promptly. Failure to do so will result in the forfeiting of all rights to a refund.

Refunds can be expected approximately six to eight weeks into the quarter.

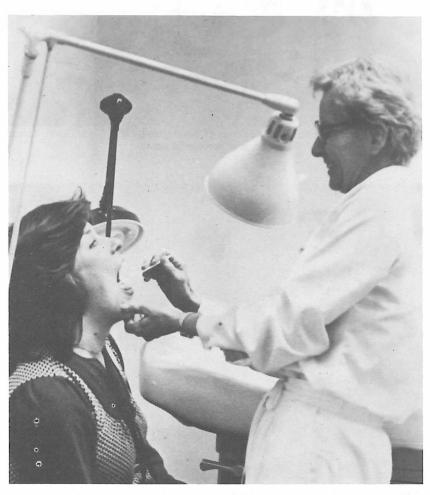
#### **BOOKS AND SUPPLIES**

The cost of books and supplies will vary from one program to another. The College Bookstore sells both new and used books. Students are encouraged to take advantage of

savings which result when purchasing used books. The cost of books and supplies will probably range from \$35-\$70 per quarter.

**Book Buy Backs**—The College Bookstore will buy back used books in good usable condition in quantities limited to the anticipated needs for ensuing quarters. Book buy back periods are announced at the end of each quarter.

Students selling books back to the bookstore will be required to furnish suitable identification, such as a Roane State Community College ID card, a valid Tennessee driver's permit, or a Social Security card.



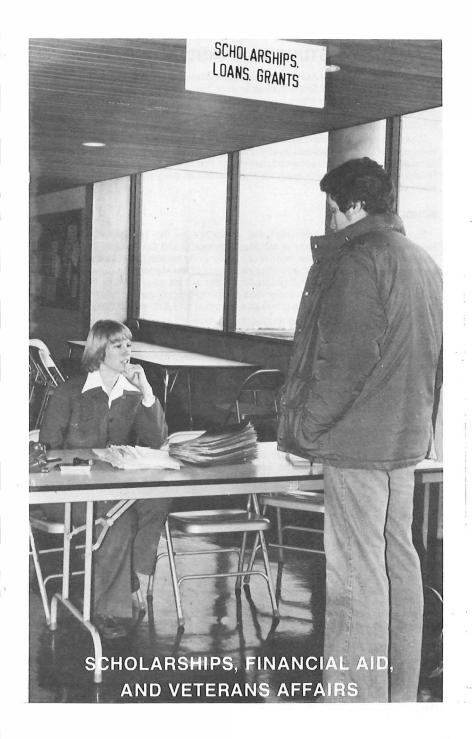
The college nurse keeps a friendly eye on everyone's health.



Coach Landers and Coach Brownlee discuss game strategy with Cindy Guinn, Teresa Duncan, and Bernadette Locke.



Student Government Association President Mike McDaniel talks with a service club president about an upcoming event.



# STUDENT FINANCIAL AID

The Student Financial Aid Program at Roane State Community College is designed to aid students who would find it difficult or impossible to attend college without financial assistance. Roane State offers a comprehensive program of financial aid in the form of scholarships, part-time employment, grants, and loans. Major emphasis is placed upon financial need, academic achievement, character and promise of future success.

When determining financial aid, the evaluating committee will consider the financial resources of the family as well as any unusual financial problems. The college will assist all qualified students as resources permit on a first-come, first-served basis. Therefore it is important for students to apply for financial aid as early as possible after January of each year.

# **SCHOLARSHIPS**

State Board Work Scholarships are authorized by the Tennessee State Board of Regents, the governing body of the State University and Community College System. These scholarships are in the amount of maintenance fees for the academic year and are awarded on the basis of achievement and needs of the student. Students ranking in the upper 5% of their high school graduating class will be given priority in the awards of these scholarships. Students recognized as having exceptional promise are also eligible to apply. They must maintain a grade point average of 2.8 to remain eligible for renewal.

The State Board Scholarship recipients are required to work approximately 95 hours per academic year. An effort is made to give recipients work assignments related to their academic interest. Residents of the State of Tennessee who believe they are qualified should submit an application after the first semester of their senior year in high school and before the following May 1st.

## PRIVATE SCHOLARSHIPS

Roane State has a limited number of private scholarships. In selecting recipients for these scholarships, emphasis is placed upon scholastic achievement, character, future promise, and financial need.

Additional scholarships will be established as interested groups and individuals desire. Those wishing to establish a scholarship fund are urged to contact the Director of Scholarships and Financial Aid at the college.

Available scholarships are:

American Contract Bridge League Scholarship Annakusa Junior Women League Scholarship Bank of Oak Ridge Scholarship Bernard Scholarship Award Burlington Scholarship Charles Bacon Scholarship Clarice Bunch Scholarship DKG-Buckner Scholarship Harriman Business and Professional Women's Club Scholarship Harriman Kiwanis Club Scholarship Harriman Music Club Scholarship Harriman Rotary Club Scholarship Insurors of Anderson County and Oak Ridge Scholarship Kingston Business and Professional Women Scholarship Kingston Lions Club Scholarship Loudon Memorial Hospital Fund Maryville-Alcoa Jaycees Scholarships

Myrle's Florist Scholarship
Oak Ridge Business Community Scholarship Fund

Phil Ressiguie Memorial Scholarship Fund

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Red Kap Industries Scholarship

Roane Choral Society Scholarship

Roane County Home Demonstration Council Scholarship

Rockwood Business and Professional Women's Club Scholarship Tennessee Valley Authority—Roane State Community College Financial Assistance

Program

Program

Town and Country Home Demonstration Club Scholarship

United Church of Oak Ridge Scholarship Veterans Club Scholarship

# ATHLETIC SCHOLARSHIPS

The College annually awards a number of athletic scholarships. For detailed information contact the Director of Athletics.

## ARMY ROTC SCHOLARSHIPS

The Army ROTC Scholarship program offers financial assistance to outstanding young men and women in the Army ROTC program who are interested in the Army as a career. Each scholarship provides for free tuition, textbooks, and laboratory fees in addition to a subsistence allowance of \$100 per month for the period that the scholarship is in effect. Scholarships may be awarded for either one, two, three or four years. High school seniors should contact their guidance counselors early in November or December of their senior year to apply for the four-year scholarship. One, two and three year scholarship applicants should contact the Director of Scholarships and Financial Aid or the ROTC Instructor for further information. Certain other privately financed scholarships and grants are available to ROTC cadets.

# **BASIC EDUCATIONAL OPPORTUNITY GRANTS**

This is a direct grant (no repayment or work requirement) from the federal government based primarily on the family's financial situation. The amount of the grant ranges between \$226 and \$888 for the school year and must be used for expenses related to attending Roane State. Such expenses include fees, books, transportation, room and board, and other related expenses.

Application forms are available from the College or from high school guidance offices.

#### SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS

Federal funds are available to colleges and universities for the purpose of providing grant assistance to undergraduate students of exceptional financial need who would not, except for the grant, be financially able to attend college. Supplmental Educational Opportunity Grants must be matched in equal amounts by other financial aid provided by the college such as other scholarship aid, loans, or student employment.

Applicants for Supplemental Educational Opportunity Grants must be enrolled or accepted for enrollment and show evidence of academic or creative promise and capability of maintaining good standing.

Grants may be renewed from year to year for the first four years of undergraduate study provided the student continues to make satisfactory academic progress. All students who apply for financial assistance are automatically considered to determine if they meet the requirements to receive a Supplemental Educational Opportunity Grant.

#### TENNESSEE STUDENT ASSISTANCE AWARD

In 1971, the Tennessee Student Assistance Corporation was created to administer the Tennessee Student Assistance Award Program. Under this program, Tennessee residents who need financial assistance may receive a grant to cover tuition and fees at the college of their choice in the state.

Application forms may be obtained from high school guidance offices, college financial aid offices, or by contacting:

Tennessee Student Assistance Corporation 707 Main Street Nashville. TN 37206

# LOANS

## NATIONAL DIRECT STUDENT LOANS

National Direct Student Loans, previously known as National Defense Loans, are available to students through funds provided jointly by Roane State Community College and the Federal Government.

These are long-term, low-interest loans on which repayment does not begin and interest does not accrue while the borrower is enrolled as a student, on at least a one-half time basis, at a college or university. Repayment of principal and 3% annual interest begins 9 months after the student leaves college. There are cancellation provisions of the National Direct Student Loan under which a student may have up to the total amount of the loan cancelled by teaching in special education, in certain schools with a high enrollment of students from low-income families, or in Head Start programs.

# FEDERAL INSURED STUDENT LOANS

Under this program, sponsored jointly by the Federal Government and the State of Tennessee, a Tennessee resident may receive long-term, low-interest loans from a participating bank or other lending institution to apply toward expenses related to education. Repayment, at 7% simple interest, begins 9 months after graduation or withdrawal from school. While the recipient remains enrolled, any interest is paid by the federal government.

Loans are usually made by the student's hometown bank or any other lending institution where the student or family is known. Application forms and information concerning the names of participating institutions are available in the Roane State Office of Financial Aid.

# PART-TIME EMPLOYMENT

## COLLEGE WORK-STUDY PROGRAM

Under the College Work-Study Program, funded jointly by college and federal funds, students may work on a part-time basis in order to help finance their education. Students who qualify for participation in this program may work up to 20 hours per week during the academic year when classes are in session or up to 40 hours per week when classes are not in session. During summer quarters, students may work up to 40 hours per week if they intend to enroll in the following fall quarter. Minimum rate of pay is the prevailing minimum wage (currently \$2.65 per hour). The type of employment varies depending upon the skills and the department in which the student is working. An effort is made to assign students jobs in areas in which they are interested such as faculty and

administratitive offices, various laboratories, the library, maintenance and security, and other areas which can effectively supervise and utilize students' help. The college regards this work experience not only as a source of supplementary income but especially as an opportunity for the student to learn dependability, initiative, and the importance of a good work record.

# HOW TO APPLY FOR FINANCIAL AID

All federal financial aid programs require the assessment of financial need, which is based on parental ability to contribute toward educational expenses. In addition to the College's application, a student should complete either the Parents' Confidential Statement of College Scholarship Service or the Family Financial Statement of the American College Testing Program. These two forms are available from the College or from high school guidance offices. Students may use the ACT or PCS form to apply for the Tennessee Student Assistance Award and the Basic Educational Opportunity Grant but the application must be submitted on or before May 15th of each year. June 1 is the priority date for applying for aid. After this day aid will be awarded on a first-come, first-served basis as long as there is money available. A student must be fully admitted to the College before aid will be awarded although students may participate in the College Work Study Program during the summer prior to admission the following fall quarter.

Information regarding student financial aid may be obtained by contacting the Office of Scholarship and Financial Aid. Renewal of aid is not automatic. Each student must file a new application each year.

# **VETERANS AFFAIRS**

Roane State Community College cooperates with the Veterans Administration in providing educational opportunities for veterans. The Director of Veterans Affairs at Roane State is available for help in determining eligibility, selection of a major, preparing the required form for VA benefits, or any other matters pertaining to college attendance under the "G. I. Bill." Veterans who have not completed high school or who do not have a high school equivalericy diploma should contact the Director of Veterans Affairs for help in planning their program of study for admission to Roane State.

Veterans desiring to attend Roane State under any of the educational assistance laws administered by the Veterans Administration should contact:

Director of Veterans Affairs Roane State Community College Harriman, TN 37748 Veterans Administration Regional Office 110 Ninth Avenue South Nashville, TN 37203

Once enrolled, veterans and other eligible persons should maintain close contact with the Office of Veterans Affairs. Information important for personal and educational plans is frequently received from the Veterans Administration. Veterans and other eligible persons are eligible to receive educational benefits under Title 38, U.S.C., (the "G. I. Bill") only when classified as a regular degree student or an adult special-veteran. Other classifications, i.e., special student-credit and student non-credit (see pages 28 and 29), are not qualifying. The progress of each adult special veteran student will be evaluated at the end of each quarter. Those students making satisfactory progress as reflected by class attendance and participation, grades achieved, and the opinions of the respective teachers will be retained in the program. Those making unsatisfactory progress will be excluded from the program. Those who demonstrate ability to carry the college level courses required by their major may be admitted as regular degree students.

Current Veterans Administration regulations require that veterans classified as regular degree students maintain the prescribed cumulative GPA listed on page 36. In addition, the Veterans Administration limits the enrollment of a veteran to eight full-time quarters for those majors requiring 99 hours. Additional quarters are allowed for those majors requiring more than 99 hours. The Veterans Administration also requires those veterans who accumulate more than 12 hours of "F" grades to be reported for purpose of counseling. Benefits will be terminated until the veteran is counseled by a VA counselor and approval given for continuation of studies.

Courses for which the veteran and other eligible persons have received a passing grade, either at Roane State or transferred from another institution, may not be claimed for pay the second time. Courses in which the veteran and other eligible persons receive a grade of "F" may be repeated and claimed for pay. Elective hours beyond those allowed by the curriculum of the declared major or courses taken for audit may not be claimed for pay. Only those courses which count toward the veteran's declared major may be claimed for pay. A claim form for such courses must be completed each quarter and filed with the Veterans Affairs Office. Course substitution must be processed and approved as described on page 35 before the substituted course is claimed for payment.

Educational benefits will be terminated for those courses in which the veteran and other eligible persons have excessive, unexcused absences. This does not affect the right of the student to continue attending the course, provided he/she has been properly

enrolled.

Veterans and other eligible persons desiring educational benefits under the "G. I. Bill" must file a claim form with the Veterans Affairs Office at the time of pre-registration each quarter. The claim form must be adjusted to reflect any further changes in the class schedule.

Further information is available at the Veterans Affairs Office.

#### **CETA CONSORTIUM**

In 1975, Roane State initiated a new program, funded under the Comprehensive Employment and Training Act (CETA), of training and offering financial assistance to a limited number of qualified students. The program provides academic training costs, part-time employment, and an allowance for travel to and from classes and work assignments. Based at Roane State, the program represents a consortium serving students in 42 counties at four community colleges across the state. The program is an integral part of the overall college experience and is coordinated through offices at the Roane State campus.



STUDENT SERVICES AND ACTIVITIES

# Student Services

Student Services comprise all the non-instructional services which Roane State Community College provides for its students. These services include academic, social, vocational and personal counseling, as well as financial aid, health services, and transfer assistance.

#### **ORIENTATION FOR STUDENTS**

All new students meet before Registration for Fall Quarter for the orientation program. One purpose of orientation is to introduce students to administrative officers and other student leaders. Another purpose is to help acquaint students with the campus and its facilities. The orientation activities are coordinated by the Student Personnel Services Office and are executed with the assistance of faculty members and Student Government Personnel.

#### **COUNSELING AND TESTING CENTER**

The Counseling Center was established to aid students in successfully completing their college work and establishing good foundations for future growth. The center is staffed by professionally trained counselors who provide services for a wide range of problems—educational, vocational and personal.

Confidentiality of counseling visits is assured so that students may feel free to discuss their concerns. Counselors also provide opportunities for students to develop interpersonal skills and to become more self-actualized using individual counseling, small group techniques, and courses in human development. Situations which cause students undue concern may disrupt their interpersonal relations and affect academic achievement. The Counseling Center provides the assistance and atmosphere to work through these problems.

Counseling may include aptitude, interest, achievement or personality tests as requested by the student. The Counseling Staff may also assist the student in securing services outside the College. A collection of occupational information materials and catalogs from various institutions is available in the center for student use.

#### **GED TEST**

Adults who have not received a high school diploma and wish to apply for a certificate of equivalency may take the General Educational Development Test at Roane State Community College, which has been established as an official center for this test. A counselor will explain requirements for taking the test and will assist applicants in the preparation of necessary application forms.

Satisfactory scores on the test enable the person to apply to his/her high school for an equivalency diploma. Persons who feel inadequately prepared to take the GED test can obtain assistance by taking a course entitled GED Preparation for High School Equivalency Diploma at the college.

#### **ACT TEST**

Roane State Community College serves as an area test center of The American College Testing Program (ACT). Tests are given on each of the national testing dates.

#### **CLEP**

The College-Level Examination Program (CLEP) gives students the opportunity to obtain college credit by examination. For information concerning CLEP at Roane State, contact the Counseling Center.

#### PLACEMENT SERVICE

The Placement Office provides assistance in securing positions for students and graduates of RSCC and maintains contact with alumni, business and industrial clients.

Candidates for a degree are required to file a personal data sheet with the Placement Office prior to graduation. It is recommended that this be completed at the time an Intent to Graduate form is filed with the Office of Admissions and Records.

The Placement Office also aids students in finding full-time, part-time, or summer employment. Students who are seeking employment are encouraged to visit the office which is located in the Student Personnel Offices.

# **HEALTH SERVICES**

The health and safety of students is a concern of the Student Personnel Services Office, and the requirement of a health examination prior to entrance is enforced. A clinic is maintained for student use in case of illness or accident occurring during the school day. A registered nurse is in charge to administer first aid and palliative treatment in minor illnesses. A local physician, designated as the college doctor, will be available for major problems. Since the College does not collect a medical fee, each student is responsible for his/her medical bills. Appointments with the director of the clinic can be made for interviews concerning special health problems. Instruction in personal health is given in appropriate health courses.

# STUDENT ACCIDENT AND SICKNESS INSURANCE PLAN

This plan provides protection 24 hours per day during the term of the policy for each student insured. Students are covered on and off campus, at home, and while traveling between home and school during interim vacation periods. Coverage is extended to provide up to 48 hours of actual travel time while enroute between home and school prior to the opening of school.

Application and claim forms may be obtained in the office of the Dean of Student Personnel Services.

## TRAFFIC REGULATIONS

**Registration of vehicles.** All motor vehicles operating on the Roane State Community College campus must be properly registered. Vehicle registration should be completed during the process of academic registration. This campus sticker must be displayed in the manner prescribed in the instructions given each registrant. If late registration is necessary, details may be obtained from the Office of the Dean of Students.

Detailed regulations are contained in the "Student Handbook." It shall be the student's responsibility to familiarize himself/herself with these regulations and to abide by them.

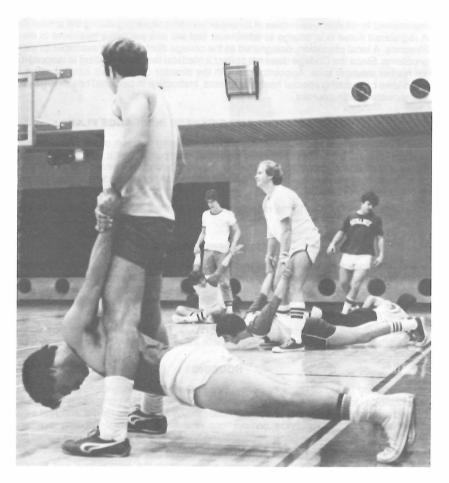
# **HOUSING**

Under State Board of Regents policy, Roane State Community College assumes no responsibility for student housing. This institution is primarily a commuting college and has no dormitories, fraternity or sorority houses. The local news media and real estate agencies are able to provide comprehensive listings of rental housing available. Individual students are responsible for making arrangements to rent these facilities from owners or their agents.

Students are required to register local addresses in the Admissions and Records Office for location purposes. Any change of address must be reported to the Admissions and Records Office. Failure to report a change of address subjects the student to disciplinary action.

# SOCIAL RETENTION STANDARDS

A student who fails to conduct himself/herself in an acceptable way may receive disciplinary dismissal; or, if the proper committee sees fit, he/she may be placed on disciplinary probation for an indefinite period of not less than one quarter. A student on disciplinary probation must meet stated requirements of his/her probation and be again reviewed by the committee before being removed from disciplinary probation standing.



The Raider baseball team warms up on the gym floor before practice.

# **Activities**

A well-rounded, integrated program of student activities is provided through student organizations. Students may choose from a variety of organizations depending upon their individual interests. These organizations include scholastic honoraries, departmental groups, service organizations, and special interest groups.

#### **FINE ARTS**

Concerts, lectures and special cultural events are sponsored by the College and the community for the enrichment of the college and community.

# **CLUBS AND ORGANIZATIONS**

# State Supported Organizations

CIRCA—The college news magazine edited and published by students during the year for the expression of student opinions, to inform students and staff of upcoming events both on and off the campus, and to release other information pertaining to or of interest to the students. The magazine is published under the advisement of the College Publications Committee, with a faculty advisor working closely with the staff of the magazine. The Publications Committee selects the Editor and Assistant Editor from applicants desiring to work in those positions.

**STUDENT GOVERNMENT ASSOCIATION**—The SGA provides opportunities for students to offer constructive opinions, thereby promoting cooperation among students, faculty and administration and working for the common good of Roane State by assisting in the promotion of social activities and special projects on the campus.

# Clubs

**ALUMNI ASSOCIATION**—The Alumni Association is an organization which aids RSCC in realizing its objectives by promoting the advancement of the educational, social, and economic interests of RSCC, its students, faculty, administration, friends, and alumni.

**BSU**—The BSU promotes interfaith as a way of life among college students. It provides a ministry to individuals in the campus community who have need for a personal relationship with Jesus Christ or who have a need for Christian growth.

CHESS CLUB—To meet together in friendship to play chess.

**CIRCLE K**—An international organization open to all students which promotes the adoption of high social, business, and professional standards through service to the campus and the community. It is affiliated with Kiwanis International.

**COAL MINING TECHNOLOGIES OF AMERICA**—CMTA combines the mutual efforts of students and staff in the advancement of educational knowledge about and employment opportunities in the fields of mining and reclamation technology.

 $\mbox{\bf DRAMA CLUB}$  — The Drama Club is responsible for presenting plays on the Roane State campus.

**FORENSIC CLUB**—The Forensic Club promotes competition in areas of debate, impromptu, extemporaneous, and after-dinner speaking.

**GAMMA BETA PHI**—A national honor society which encourages scholastic effort and rewards academic merit, stands for and promotes worthy character and high ideals, and fosters, disseminates, and improves education through appropriate service projects.

**LITERARY CLUB**—The Literary Club organizes and assists financially a literary magazine and promotes interest in the literary efforts of the students of Roane State and the surrounding community.

**PAC**—The Political Awareness Club brings students into contact with various political philosophies to provide them an opportunity to find political expression and recognition as well as to gain insight as to how our political democracy operates, how to effectively work for change within the system, and how day-to-day operations of the system affects both foreign and domestic affairs.

**PHI BETA LAMBDA**—Phi Beta Lambda is a national organization open to all students enrolled in business office or teacher education programs at the college. Its aim is to help develop vocational competencies among those students who accept the purposes of the organization and subscribe to its creed.

**ROTARACT CLUB**—The Rotaract Club is an international organization open to all students to develop leadership and responsible citizenship through service to the community, and to advance the cause of international understanding and peace, and to promote recognition and acceptance of high ethical standards as a leadership quality and vocational responsibility.

**VETERANS CLUB**—The Veterans Club provides a means whereby veterans can meet for social purposes and keep abreast of current legislation and regulations affecting veterans' educational benefits but, especially, to provide a means for veterans to continue serving their college, community, and nation.

#### **INTRAMURALS**

The Office of Student Activities conducts a diverse program of activities to provide students and staff the opportunity to participate in organized individual and team activities. The program does not require the intensified training and high degree of skill normally associated with varsity and/or professional competition. An individual's playing ability is not considered as important as the desire to enter into the true spirit of competition for the purpose of fun and relaxation. Participants, however, are expected to display good sportsmanship at all times.

The intramural program includes physical activities such as volleyball, flag football, basketball, and softball as well as less strenuous pastimes like chess, spades, and other card and table games. The final authority on all matters concerning intramural competition is vested with the Intramural Director.

In order to be eligible each participant must (1) be a bonafide student or staff member at RSCC; (2) not be a member of any varsity team competing in that sport intercollegiately; (3) not have played that intramural sport either professionally or semi-professionally. Participants who have previously competed in intercollegiate varsity competition in that sport *may* be eligible under certain restrictions.

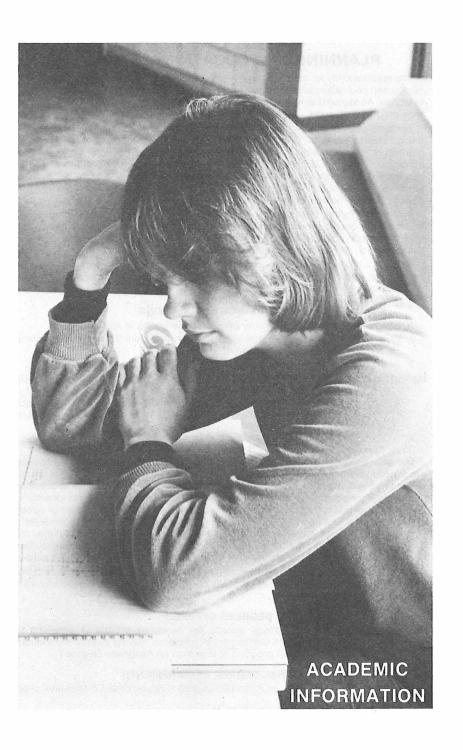
RSCC can not assume responsibility for any injury(ies) incurred during practice for or participation in any of its intramural/recreational activities beyond the coverage extended to all students by Health Services.

#### **ATHLETICS**

Roane State competes in men's and women's basketball and tennis and men's baseball and golf as a member of the Eastern Division of the Tennessee Junior College Athletic Association.

In order for a student to participate in athletics, eligibility requirements of the National Junior College Athletic Association must be met. Any inquiries about athletics should be directed to the Department of Athletics located in the gymnasium.

All RSCC students will be admitted to athletic contests upon presentation of a validated student identification card. An admission charge of \$1.00 will be assessed all non-students.



# PLANNING AN EDUCATIONAL PROGRAM

The responsibility for selecting an educational program rests with each student. The faculty and counselors take pride in assisting students in program planning and course selection. All students will be assigned an appropriate faculty advisor to assist them in their programs of study.

Students who are entering college for the first time and who will be full time students (taking course loads of 12 quarter hours or more) are required to take a battery of placement tests before they register for their first quarter at Roane State. These tests, administered by the Counseling Center, are designed to be used by faculty advisors in helping students plan appropriate courses of study. Students who score below a tenth grade reading level on the Nelson-Denny Reading Test are required to take REA 1010 during their first quarter of enrollment at Roane State.

Some students may be required to meet further prerequisites to enter the program they select. In the best interests of the student, admission to a particular curriculum or to specific courses should be based upon evidence which would indicate a fair chance of satisfactory performance in the program or course.

Students who are planning to transfer from Roane State at the conclusion of two years' work to a four-year institution should secure a copy of that institution's catalog to use in planning their transfer program.

#### ATTENDANCE REGULATIONS

- 1. Attendance of classes and other official appointments is required.
- An explanation of absences should be given to instructors. This information should be presented in advance if possible.
- 3. Absences are counted from the first scheduled meeting of the class.

IMPORTANT: Non-attendance does not constitute a withdrawal from classes or from the College. Procedures to follow to formally drop a course (see page 34) or to withdraw from the College (see page 37) must be followed. IT MAY PREVENT YOUR RECEIVING AN UNDESIRED "F" ON YOUR TRANS-CRIPT.

#### **OBJECTIVES OF THE CURRICULUMS**

The two-year programs of study available at Roane State Community College are described in the following pages. The four objectives of the curriculums are (1) to prepare students for advanced standing in other colleges and universities after successfully pursuing a Roane State Community College program; (2) to prepare students for entrance to certain professional schools whose admission requires one or two years of college experience prior to enrollment; (3) to offer a continuity of courses to give students an opportunity to explore interests and abilities in several fields of study so that they may plan more realistically for the continuation of their education; and (4) to prepare students to enter technological areas which require additional education beyond high school.

Students planning to transfer into special programs at senior institutions should work with the faculty advisor, using the appropriate check sheet of the institution to which they will be transferring.

# **DEGREES OFFERED**

Roane State Community College awards the Associate of Arts Degree and the Associate of Science Degree. (A Certificate of Proficiency may be awarded to a student who completes any prescribed program of less than an Associate Degree.)

#### **GENERAL DEGREE REQUIREMENTS**

The general requirements for an Associate Degree at Roane State Community College are as follows:

1. Not less than 99 quarter hours of credit.

- A minimum of 36 of the final 48 quarter hours of course work completed in residence at Roane State Community College.
- 3. A minimum over-all quality point average of 2.00 ("C") on all work attempted at Roane State Community College. In no case may transferred grades be used to raise the student's quality point average on courses taken at Roane State Community College; his/her average on all courses here must be "C" (2.00 or better).
- 4. Completion of specific course requirements as given in outlined Programs of Study. (Substitutions in programs must be approved by the Dean of Instruction.)

# **CORE CURRICULUMS**

The general (transfer education) core curriculum below is for students primarily planning to transfer to senior institutions immediately upon graduation from Roane State Community College. The career education core curriculum below is primarily for students planning immediate employment upon graduation. The minimum expectation for graduation in a particular program is outlined on the following pages of the Degree and Certification Programs section.

The establishment of two core curriculums for Roane State Community College provides flexibility for the "undecided major" student to change course objectives and to redirect his/her academic pursuits without undue penalty and hardship. The two cores are as follows:

#### **GENERAL CORE CURRICULUM**

Area of Study	Hours Required
English Composition	
Humanities (To include six hours of literature)	
American History	
Natural/Physical Science <sup>1</sup>	
Mathematics	
Physical Education Activities <sup>2</sup>	

<sup>&#</sup>x27;Requirement must be met from the same sequence. Student may select Biology, Chemistry, Geology, Natural Science, or Physics.

# CAREER EDUCATION CORE CURRICULUM

Minimum Quarter

Area of Study	Hours Required
Humanities (To include six hours composition)	
Physical Education Activities <sup>1</sup>	
Social Science Elective	

<sup>&</sup>lt;sup>1</sup>Students completing a majority of their courses in the evening or at off-campus locations other than Oak Ridge may substitute a three-hour health or recreation; course (one not required by their degree program) to fulfill this requirement. A petition for substitution must be filed with the office of Admissions and Records.

# LIBRARY

The library serves, primarily, the students and faculty of the college and, secondarily, members of the surrounding communities. In its collection of books, periodicals,

<sup>&</sup>lt;sup>2</sup>Students completing a majority of their courses in the evening or at off-campus locations other than Oak Ridge may substitute a three-hour health or recreation course (one not required by their degree program) to fulfill this requirement. A petition for substitution must be filed with the office of Admissions and Records.

microfilm, recordings, and other audio/visual material the library makes available resources to support the curriculum and to provide for recreational reading.

Hours are 7:45 a.m. to 10:00 p.m. Monday through Thursday and 7:45 a.m. to 5:00 p.m. on Friday. Special additional hours will be announced. Members of the library staff are available whenever assistance is needed.

The Library of Congress classification system is used and books are shelved in open stacks for self-service. Books may be checked out for a two-week period with renewal privilege. No fines are charged for overdue books, but all overdue books are subject to recall at any time by the Librarian. Borrowers are responsible for replacement of lost or damaged materials.

Interlibrary loan service is available to all patrons so that material not owned by the Roane State library may be borrowed from another library. Information is available from any member of the library staff.

Gifts to the library are welcomed. However, the library staff reserves the right to (1) evaluate the usefulness of the gift prior to its acceptance, (2) use the gift in any manner that will be most beneficial to the library and (3) at the discretion of the Librarian, discard any gift that is no longer useful. The Librarian welcomes recommendations on the purchase of new material from both students and faculty.

### LEARNING LABORATORY

The main purpose of the Learning Lab is to personalize instruction by providing unique and individualized learning situations for all students. This room contains the latest equipment in audio-visual techniques including tape-recorders, slide viewers, film strip and film loop viewers and computer-assisted instruction. These resources are available for use by all Roane State students, faculty and staff.

The Learning Lab is located in C-225 next to the computer center. Hours are posted on the door each quarter.

#### CONTINUING EDUCATION PROGRAM

Roane State Community College is dedicated to the philosophy that education is a never-ending process; it continues throughout the lifetime of an individual. Thus, the college makes every effort to offer the advantages of at least part of its total program to every person in the community who can benefit from the experience. Continuing Education includes courses from the five divisions of instruction in the college and is an integral part of the total academic program of the college.

## **Evening Courses**

The evening program at Roane State Community College is more than a separate series of night classes designed for students beyond the traditional college age. The College instead offers a full selection of courses from 8:00 a.m. until 9:15 p.m., enabling students of all ages to schedule classes at times convenient and suitable to their needs. Roane State Community College believes that the resulting association of older students, having a background of work and life experiences, with recent high school graduates is mutually beneficial.

Two full years of college training can be completed during the evening, and the requirements can be met for many of the Associate of Arts or Associate of Science Degrees. Evening students must meet the same degree requirements as those attending day classes (with the exception of physical education, which may be waived under certain conditions). Experienced advisors and counselors are available to those evening students desiring help in planning a degree or a certificate program.

# **Off-Campus Courses**

Roane State Community College also offers both day and evening classes in many locations throughout its service area. Classes are offered in off-campus locations for the benefit and convenience of students in its large service area, giving many students a chance to continue their education who would otherwise be unable to because of time or travel restrictions. These classes are staffed by qualified instructors from the academic divisions of the college and are of equal quality to the same courses on campus. Nearly all courses offered on campus can also be offered off-campus, with the exception of certain courses requiring special equipment. Most of the requirements for many Associate of Arts or Associate of Science Degrees can be completed at off-campus locations. Experienced advisors and counselors are available to off-campus students desiring help in planning a degree or a certificate program.

# **COMMUNITY SERVICES PROGRAM**

In addition to credit courses, special non-credit courses reflecting community interest may be organized at the request of a sufficient number of interested persons. Individuals may pursue these special offerings for personal enrichment, to comply with business or industrial opportunities and/or requirements, for specific technological information and for general cultural benefits. Students taking courses for non-credit are not required to follow the same admissions procedures as those students in degree courses.

The Community Service Program of the college includes a variety of activities which are offered in cooperation with community groups and agencies. The program offerings are in accord with the public's needs and interests and include such activities as lectures, clinics, short courses, conferences, forums, concerts, fine art festivals, workshops, institutes, community utilization of college facilities, self-development functions and community development functions. The college welcomes the opportunity to meet with representatives in our community (e.g. educational, governmental, industrial and business organizations) to plan special types of training or activities that might be beneficial to their organization or to our community.

All inquiries in the area of community service non-credit courses should be directed to:

Director of Community Services Roane State Community College

Harriman, Tennessee 37748

Inquiries concerning credit courses should be directed to:

Director of Admissions and Records Roane State Community College Harriman, Tennessee 37748

#### COOPERATIVE EDUCATION PROGRAM

Cooperative education assumes the concept that work experience should be an integral part of the student's total education. The opportunity to engage in productive employment under the competitive conditions of life in a realistic adult environment can provide the student with insights that enrich the educational experiences. Practical experience offered at a time when the individual is at the peak of learning capacity adds relevance to education. Cooperative education integrates classroom learning and work experiences into a total learning program.

Cooperative education applies to both the transfer curricula and the Career Education curricula. The only difference is the time phasing of the work experiences into the learning program and some administrative details. In both cases the student must complete the same course work as the non-cooperative learning student and the work experiences are related as closely as possible to the student's curriculum.

#### TRANSFER PROGRAMS

College transfer curriculums are designed for students who intend to transfer to senior institutions. A student who is planning to transfer from Roane State Community College to a four-year institution should secure a copy of the catalog of the four-year institution selected and have it available during the registration period for use in planning his/her transfer program.

## SUMMARY OF PROGRAM OFFERINGS

DIVISION	MAJOR	OPTION WITHIN MAJOR	DEGREE
Humanities	General	Art	AA
		General	AA
Humanities		Music	AA
Social Science		Social Science	AA
Humanities	General	Art	AS
Education		Art Education	AS
→Math/Science		Biology	AS
Career Education		Business Administration	AS
Education		Business Education	AS
Math/Science		Chemistry	AS
Education		Early Childhood Education	AS
Education		Elementary Education	AS
Career Education	Fire Science	•	AS
		General	AS
Education		Health, Physical Education and	
		Recreation	AS
→Math/Science		Mathematics or Physical Science	AS
Education		Music Education	AS
Math/Science		Pre-Engineering	AS
Math/Science		Pre-Med, Pre-Dentistry, Pre-Pharmacy	AS
-Math/Science		Pre-Nursing	AS
Education		Secondary Education	AS
Social Science		Social Science	AS
Education		Special Education	AS
Career Education		Technology	AS

## **CAREER EDUCATION**

The expanding economy and the increased emphasis upon scientific research and development have brought about an ever increasing demand for the well educated person to work with and under the supervision of the scientist, the engineer, the doctor, and the management of the business world. The responsibilities of this person, educated in the broad spectrum of the technologies, will continually be confronted with the acquisition of new competencies as this nation becomes more industrialized and new job classifications emerge. These new jobs are requiring education at the college level.

The gap between the skilled craftsperson and the professionally trained person has become more pronounced. Communication between these two areas is becoming more and more difficult. The semi-professional person, educated in the technologies, will bridge the existing gap. He/she may work with the scientist or engineer as a laboratory assistant or on some special assignment involving the skills of the skilled craftsperson. He/she may work with the medical profession as a technically trained person in the many areas that now exist in medical science. He/she may work as a specialist in the complex business areas.

The career education programs at Roane State Community College are in the areas of accounting technology, administration technology, coal mining technology, computer science technology, dietetic technology, electronics technology, engineering technology, fire science technology, general business administration, general clerical, management and supervision technology, medical record technology, police science, radiologic technology, recreation management, and secretarial science. The programs are constructed so that the student may seek employment at the completion of his/her program or transfer to a four year institution for upper level training.

# **SUMMARY OF PROGRAM OFFERINGS**

	DIVISION	MAJOR	OPTION WITHIN MAJOR	DEGREE
		Business Management Technology  Coal Mining Technology	Accounting Banking General Business Insurance Management and Supervision Savings Association Small Business Deep Mine Surface Mine	AS AS AS AS AS AS
	Career Education	Computer Science Technology	Business Scientific	AS AS
	Career Education	Dietetic Technology Electrical and Electronics Technology Engineering Technology	Chemical Engineering Civil Engineering Electrical Engineering	AS AS AS AS
		Fire Science Technology	Mechanical Engineering Nuclear Engineering Fire Service Fire Protection	AS AS AS AS
П		Medical Laboratory Technology Medical Record Technology Mini/Microcomputer		AS AS
		Technology Operating Engineering		AS
	Career Education	Technology Police Science and Criminology		AS
		Education  Radiologic Technology	Corrections Police Science	AS AS AS
П		Recreation Management Technology		AS
	*	Respiratory Therapy Technology Secretarial Science		AS
	Davide Education	Technology	Executive Secretary General Clerical Medical Secretary	AS AS AS
	Career Education Career Education Career Education Career Education	General Clerical	·	Certificate Certificate Certificate Certificate



#### **DIVISIONS OF INSTRUCTION**

#### Education

**Developmental Studies** 

Education

Health

Physical Education

Reading

(rED)

# **Humanities**

Art English Journalism Language Music Philosophy Speech

## **Mathematics and Science**

Biology Chemistry Mathematics Natural Science Physics Geology

# **Social Science**

Geography History Political Science Psychology Sociology

#### Career Education

Business and Commerce Coal Mining Technology Computer Science

Computer Science
Dietetics
Economics

Electrical Electronics
Engineering Technology

Fire Science

Medical Laboratory Technology

OAD

Medical Records

Mini/Microcomputer Technology

Operating Engineering Police Science

Radiologic Technology Recreation

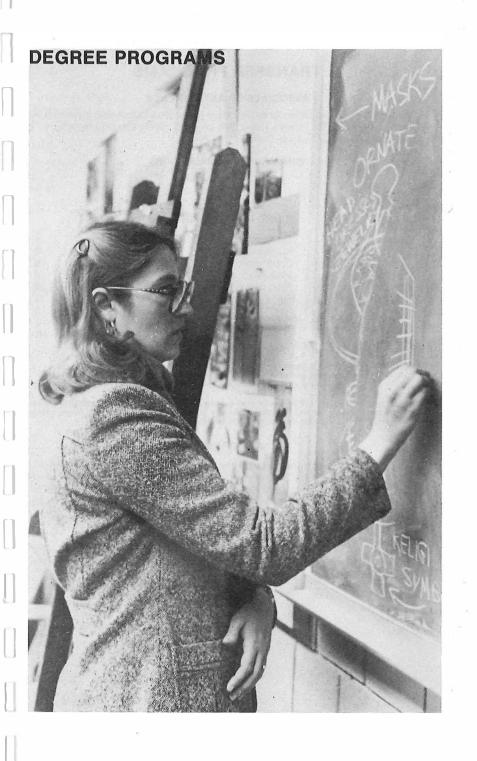
Respiratory Therapy

Secretarial Science

Technology

#### **DEGREE AND CERTIFICATION PROGRAMS**

The following pages contain, in outline form, the degree and certificate programs of study and the summaries of required hours for all of the programs mentioned above.



# TRANSFER PROGRAMS

# ASSOCIATE OF ARTS/SCIENCE

This program is designed for students who desire to transfer to a four-year institution. With the addition of one of the options listed, this program meets the requirements for the associate degree at Roane State Community College.

#### SUMMARY OF REQUIRED HOURS

Catalog Number	Course Title	Quarter Hours
	CORE REQUIREMENTS	
ENG 1010, 20, 30	Composition I, II, III	6 3
HIS 2110, 20, 30	Physical/Natural Science <sup>3</sup>	9

<sup>&</sup>lt;sup>1</sup>If not specified in option selected, student may choose from any courses offered in Humanities Division.

requirement. A petition for substitution must be filed with the Office of Admissions and Records.

The art curriculum is designed primarily for the general enrichment of the student as well as providing professional art and liberal arts course work for transfer to a four-year institution. This program is designed to develop fundamental skills in technique and creative expression. An art major planning to transfer to a senior institution should plan a program to meet specific requirements of the lower division at the chosen institution. The art department reserves the right to retain student work for exhibition.

#### SUMMARY OF REQUIRED HOURS

Catalog	Course	Quarter
Number	Title	Hours
ART 1110, 20, 30	Basic Studio I, II, III	
ART 2010, 20, 30	Art History Survey I, II, III	
	Art Electives	
SPE 2410	Basic Speech Communication	3
	Social Science	6
	Electives <sup>1</sup>	
		_
	Option Sub-total	
	Core Requirements	
		-
		TOTAL 99

<sup>&</sup>lt;sup>1</sup>To include nine hours of foreign language for an Associate of Arts Degree

If not specified in option selected, student may choose any course offered by the Mathematics Department. If not specified in option selected, student may choose any science sequence. Requirement must be met from the

<sup>&</sup>quot;If not specified in option selected, student may choose any science sequence. Requirement must be met from the same sequence.

4Students completing the majority of their courses in the evening or at off-campus locations other than at Oak Ridge may substitute one three hour health or recreation course (one not required by their degree program) to fulfill this

ART OPTION

# **ART EDUCATION OPTION**

The art education curriculum is designed for a student who plans to complete a baccalaureate degree in art and who desires to receive a certificate to teach art in elementary or secondary school.

#### SUMMARY OF REQUIRED HOURS

Catalog Number	Course Title	Quarter Hours
ART 1110	Basic Studio I	3
ART 1810	School Art	
ART 2010, 20, 30	Art History Survey I, II, III	
EDU 2010	Introduction to Education	3
HEA 2210	Personal Health	
MAT 2310, 20	Concepts of Mathematics I, II	
PSY 1010, 20	General Psychology I, II	
PSY 2210	Educational Psychology	3
SPE 2410	Basic Speech Communication	
	Art Electives	
	Social Science Electives	6
	Sophomore English (In addition to	
	core requirements)	3
	Electives	6
	Option Sub-total	60
	Less the courses which are	
	in the core requirements	
	Core Requirements	48
	, ,	-
	TO	TAL 99

# **BIOLOGY OPTION**

The biology curriculum is designed for the student planning to complete the baccalaureate degree at a four-year institution. This program generally meets the transfer requirements for students entering any one of the state's major universities. Before entering this plan of study, each student should become acquainted with any pre-transfer requirements the receiving institution may stipulate. The current job market gives highest priority to the graduate degree in biology.

# SUMMARY OF REQUIRED COURSES

	Catalog	Course	Quarter
	Number	Title	Hours
-1	BIO 1110, 20, 30	General Biology I, II, III <sup>1</sup>	0-12
-1	BIO 2610	Genetics	
4	BIO 2620	Cell Biology	
	BIO 2630	Ecology	
7	CHE 1110, 20, 30	General Chemistry I, II, III	
ш	MAT 1110, 20, 30	Introduction to Analysis I, II, III	
		Social Science Electives	9
		Speech	3
		Electives <sup>2</sup>	24-12
		Option Sub-total	69
		Less the courses which are	

in the core requirements18
Core Requirements

TOTAL 99

Students with at least two years of high school biology or satisfactory ACT scores may, with permission from the Math-Science Division, omit Biology 1110, 20, 30 and enter BIO 2610, 20, 30 directly (see course listings under Biology). If BIO 2610, 20, 30 are elected, CHE 2310, 20, 30 are recommended as electives. 
Recommended electives might include additional biology or math, geography, physics, organic chemistry, economics, or psychology.

# **BUSINESS ADMINISTRATION OPTION**

The business administration program includes professional studies and courses in the liberal arts. Upon completion of this two-year program, the student may then transfer to a senior institution to complete the requirements for the baccalaureate in accounting, business management, or related fields.

#### SUMMARY OF REQUIRED HOURS

Catalog Number	Course Title	Quarter Hours
BUS 1010	Introduction to Business	
BUS 2210, 20, 30	Principles of Accounting I, II, III1	9
ECO 2010, 20, 30	Principles of Economics I, II, III	
MAT 1110, 20, 30	Introduction to Analysis I, II, III <sup>2</sup>	
PSY 1010, 20	General Psychology I, II	6
SOC 2010	Introduction to Sociology	
	Electives	13-14
	Option Sub-total	54
	Less the courses which are	
	in the core requirements	
	Core Requirements	48
		TOTAL 00
		IUTAL 99

<sup>1</sup>BUS 2250 may be substituted for BUS 2230.

# **BUSINESS EDUCATION OPTION**

The business education program includes professional studies and courses in liberal arts. Upon completion of this two-year program, the student may then transfer to a senior institution to complete the requirements for the baccalaureate in secretarial science or to teach business education.

## **SUMMARY OF REQUIRED HOURS**

Catalog	Course	Quarter
Number	Title	Hours
BIO 1110, 20, 30	General Biology I, II, III	12
BUS 1010	Introduction to Business	3
BUS 2210, 20, 30	Principles of Accounting I, II, III <sup>1</sup>	9
ECO 2010, 20, 30	Principles of Economics I, II, III	9
EDU 2010	Introduction to Education	3

<sup>&</sup>lt;sup>2</sup>Or MAT 2610, 20.

MAT 1110, 20, 30	Introduction to Analysis I, II, III9
PSY 1010, 20	General Psychology I, II6
PSY 2210	Educational Psychology3
SSC 1010, 20, 30	Typing I, II, III
SSC 2010	Typing IV
SPE 2410	Basic Speech Communication3
	Sophomore English (In addition to
	core requirement)3
	Shorthand I, II, III <sup>2</sup> 0-15
	Shorthand IV <sup>2</sup> 0-5
	Option Sub-total
	Less the courses which are
	in the core requirements21
	Core Requirements
	Fig. 1
	TOTAL 99-119

<sup>1</sup>BUS 2250 may be substituted for BUS 2230. <sup>2</sup>Taken only if student wishes to be certified in shorthand.

# **CHEMISTRY OPTION**

The chemistry curriculum will allow a student to transfer to a four-year institution and work toward a Bachelor of Science degree in chemistry or any area which has similar requirements for the first two years.

# SUMMARY OF REQUIRED HOURS

	SUMMARY OF REQUIRED HOURS	
Catalog	Course	Quarter
Number	Title	Hours
CHE 1110, 20, 30	General Chemistry I, II, III	
CHE 2310, 20, 30	Organic Chemistry I, II, III	
CHE 2210	Quantitative Analysis	4
PHY 2110, 20, 30	Physics I, II, III	
MAT 2610, 20, 30	Calculus and Analytic	
	Geometry I <sup>1</sup> , II, III <sup>2</sup>	
	Social Science Electives	6
	Electives	
	2,001,700	
	Option Sub-total	67
	Less the courses which are	
		4.5
	in the core requirements	
	Core Requirements	
		<del></del>
		TOTAL 100

<sup>1</sup>Certain students may need MAT 1210 or MAT 1500 before MAT 2610. <sup>2</sup>MAT 2710 may be substituted for MAT 2630.

# **EARLY CHILDHOOD EDUCATION OPTION**

The early childhood education curriculum is designed for a student who wishes to take the first two years of a program toward certification. This curriculum will meet the lower division requirements for transfer to a four-year institution granting the baccalaureate

degree in early childhood education. A student may transfer to a senior college and complete requirements for state certification.

# **SUMMARY OF REQUIRED HOURS**

Course Title	Quarter Hours
School Art	
,	3
	3
0 0 0	
	3
	6
	3
Safety and First Aid	3
Community Health	3
Music Appreciation	
Teaching Physical Education in the	
Elementary Schools	
General Psychology I	3
Educational Psychology	3
Basic Speech Communication	3
Sophomore English (In addition to core	
requirement)	3
Electives	3
	_
	72
Core Requirements	48
	3 <del>7</del>
TOTA	AL 99
	School Art General Biology I, II, III Introduction to Early Childhood Education Human Growth and Development Child Development From Infancy Through Age Eight Creative Activities and Experiences for Young Children Prospective Teacher Cooperative Practicum I, II Field Experiences in Early Childhood Education Safety and First Aid Community Health Concepts of Mathematics I, II, III Music Appreciation Teaching Physical Education in the Elementary Schools General Psychology I Educational Psychology Basic Speech Communication Sophomore English (In addition to core requirement) Electives  Option Sub-total Less the courses which are in the core requirements Core Requirements

# **ELEMENTARY EDUCATION OPTION**

The elementary education curriculum is designed for a student who wishes to take the first two years of a program toward certification. This curriculum will meet the lower division requirements for transfer to a four-year institution granting the baccalaureate degree in elementary education. A student may transfer to a senior college and complete requirements for state certification.

# SUMMARY OF REQUIRED HOURS

Catalog	Course	Quarter
Number	Title	Hours
ART 1010	Art Appreciation <sup>1</sup>	3
EDU 2010	Introduction to Education	
EDU 2710	Reading in the Elementary Schools	
GGY 1010	Physical Geography I	
HEA 2210	Personal Health	3
HEA 2410	Community Health	3
MAT 2310, 20, 30	Concepts of Mathematics I, II, III	9
PED 2810	Teaching Physical Education in the	
	Elementary Schools	3
PSY 1010, 20	General Psychology I, II	6
PSY 2210	Educational Psychology	3
PSY 2410	Child Psychology	
SPE 2410	Basic Speech Communication	
	Sophomore English (In addition to	
	core requirement)	3
	Electives <sup>2</sup>	
	Option Sub-total	60
	Less the courses which are	
	in the core requirements	_0
	Core Requirements	40
	TOTA	1 99
	IOIA	

<sup>1</sup>Art 1810 may be substituted for Art 1010.

<sup>&</sup>lt;sup>2</sup>The following courses are suggested as elective hours for students planning to be teacher aides or to meet specific requirements of their choice of a four-year institution.

EDU 2910, 20	Prospective Teacher Cooperative
	Practicum I, II6
GGY 1020	Physical Geography II
GGY 2110	World Regional Geography I
PED 2850	Playground Leadership

This curriculum is designed to provide an alternative in required course work for elementary education and provide a student with a terminal degree. This program will, in part, meet the lower division requirements for transfer to a four-year institution granting the baccalaureate degree in elementary education. All of the courses should benefit the student who desires employment as an elementary teacher aide.

NOTE: Each student in this program will be required to select one physical education activity course from each of the following areas: team activity, individual activity, and dance activity.

# **GENERAL OPTION**

With an appropriate choice of electives, a student can, by following this general program, earn an associate degree from RSCC and also complete the lower division requirements for the baccalaureate at a four-year institution. Students who are interested in a profession such as law, agriculture, architecture, advertizing, etc. should select this option.

Catalog Number	Course Title Electives1	Quarter Hours
	Option Sub-total	
	TOTA	L 99

<sup>&</sup>lt;sup>1</sup>To include 9 hours of foreign language for an Associate of Arts degree.

## HEALTH, PHYSICAL EDUCATION AND RECREATION OPTION

The health, physical education, and recreation curriculum is designed to meet the needs of a student who desires to transfer to a senior institution and complete a baccalaureate degree with a major or minor in this area. This program is also designed to help a student maintain the best possible physical, mental, and social well-being. The degree program will be planned by subject area advisor in line with the state certification and the catalog requirements of the senior institution.

## **SUMMARY OF REQUIRED HOURS**

	COMMINET OF REGULES HOUSE	
Catalog Number	Course Tille	Quarter Hours
BIO 1110, 20, 30	General Biology I, II, III	12
EDU 2010	Introduction to Education	3
HEA 2210	Personal Health	
HEA 2310	Safety and First Aid	3
HEA 2410	Community Health	3
MAT 2310, 20	Concepts of Mathematics I, II	6
PED 2710	Introduction to Physical Education	3
PED 2720	Teaching Individual and Dual Sports	3
PED 2810	Teaching Physical Education in	
	Elementary Schools	3
PSY 1010, 20	General Psychology I, II	
PSY 2210	Educational Psychology	
PSY 2410	Child Psychology	
SPE 2410	Basic Speech Communication	
	Recreation Electives	
	Social Science Electives	
	Sophomore English (In addition to core	2
	requirement)	
	Liectives	
	Option Sub-total	72
	Less the courses which are	
	in the core requirements	-21
	Core Requirements	
	Coro rioqui omono i i i i i i i i i i i i i i i i i i	
	TC	OTAL 99

## MATHEMATICS OR PHYSICAL SCIENCE OPTION

The mathematics or physical science curriculum will allow a student to transfer to a four-year college or university and work toward a Bachelor of Science degree in mathematics, physics, or any area which has similar requirements for the first two years.

Catalog Number	Course Title	Quarter Hours
CHE 1110, 20, 30	General Chemistry I, II, III <sup>1</sup>	12
MATHEMATICS: 28 credits to	be taken from the tollowing:	28
MAT 1210	Trigonometry	
MAT 1310	Symbolic Logic	
MAT 1500	Pre-Calculus	
MAT 2550	Probability and Statistics	3
MAT 2610, 20,	Calculus and Analytic	
30, 40	Geometry I, II, III, IV20	)
MAT 2650	Linear Algebra	3
MAT 2710	Differential Equations	5
PHY 2110, 20, 30	Physics I, II, III	
	Social Science Electives	9
	Electives	5
	Option Sub-total	66
	Less the courses which are	
	in the core requirements	15
	Core Requirements	48
	·	
	TOTAL	99

<sup>&#</sup>x27;A student choosing an emphasis in mathematics may substitute a three quarter (12 quarter hour) sequence in biology.

## **MUSIC OPTION**

A music major planning to transfer to a senior institution should become familiar with the specific lower division requirements at that individual senior institution. The curriculum in this degree is designed to give the performing music major a sound basis for continuing music study at a senior institution.

NOTE: All music majors must have a major applied area at the college level; all music majors must pass a piano proficiency examination equivalent to two years of college piano; all music majors must attend all solo classes and other selected performances.

Catalog	Course	Quarter
Number	Title	Hours
MUS 1020	Fundamentals of Music	3
MUS 1110, 20	Theory	6
MUS 1111, 21	Theory Practicum	
MUS 1112, 22	Keyboard Practicum	2
MUS 2010, 20, 30	Introduction to Music	
	Literature I, II, III	6
MUS 2110, 20, 30	Advanced Theory	9
MUS 2111, 21, 31	Advanced Theory Practicum	3
MUS 2112, 22, 32	Advanced Keyboard Practicum	3
	Applied Instruction in Music	12

Ensemble	
Option Sub-totalLess the courses which are	60
in the core requirements	6
Core Requirements	48
TOTAL	102

<sup>&</sup>lt;sup>1</sup>Must be a foreign language for the Associate of Arts degree.

#### MUSIC EDUCATION OPTION

The music education curriculum is designed for a student who plans to complete a baccalaureate degree in music and who desires to receive a certificate to teach music in elementary or secondary school.

NOTE: All music majors must have a major applied area at the college level; all music majors must pass a piano proficiency examination equivalent to two years of college piano; all music majors must attend all solo classes and other selected performances.

#### SUMMARY OF REQUIRED HOURS

Course Tille	Quarter Hours
Personal Health	3
	_
Advanced Theory Practicum	3
Advanced Keyboard Practicum	3
, ,,	
Applied Instruction to Major Areas	9
Ensemble	b
	67
Core Requirements	<u> 48</u>
•	TOTAL 109
	Introduction to Education Personal Health Fundamentals of Music Theory Theory Practicum Keyboard Practicum Introduction to Music Literature I, II, III Advanced Theory Advanced Theory Advanced Theory Practicum General Psychology I Educational Psychology Child Psychology Basic Speech Communication Applied Instruction to Major Areas Ensemble  Option Sub-total Less the courses which are in the core requirements Core Requirements

#### PRE-ENGINEERING OPTION

The basic pre-engineering curriculum is designed for a student desiring to earn a baccalaureate degree in any engineering field at a four-year institution. Upon the successful completion of the basic program, the student can transfer to an engineering college and major in any of these engineering fields: aerospace, chemical, civil, electrical, engineering mechanics, engineering physics, engineering science, industrial, mechanical, metallurgical, nuclear, etc.

Catalog			Course	Quarter
Number			Title	Hours
CHE 1110,	20, 30		General Chemistry I, II, III	12
ERG 1010,	20		Engineering Graphics I, II	6
ERG 1100			Introduction to Engineering	3
ERG 2010.	20		Engineering Mechanics I, II	6
ERG 2110			Thermodynamics	3
MAT 1500			Pre-Calculus <sup>1</sup>	0-5
MAT 2610.	20 30	40	Calculus and Analytic	
111111 2010,	20, 00,		Geometry I, II, III, IV	20
MAT 2710			Differential Equations	
PHY 2110,	20 30		Physics I, III	
1111 2110,	20, 00		Electives	
			Liectives	3-0
			Option Sub-total	72
			Less the courses which are	/ 2
				4.5
			in the core requirements	
			Core Requirements	48
				_
			TOTAL	105

Exceptional students may start in MAT 2610.

## PRE-MEDICINE, PRE-DENTISTRY, PRE-PHARMACY OPTION

This unified basic curriculum in pre-medicine, pre-dentistry, and pre-pharmacy is designed to prepare a student for entrance into a professional school, such as The University of Tennessee or a similar institution, where admission requirements are two years of college experience. Medical college usually requires three or four years of college experience. A student at Roane State Community College should consult the catalog of the university of his/her choice to determine specific requirements for admission.

Catalog Number	Course Title	Quarter Hours
BIO 1110, 20, 30	General Biology I, II, III <sup>1</sup>	12
CHE 1110, 20, 30	General Chemistry I, II, III	12
CHE 2310, 20, 30	Organic Chemistry I, II, III	12
MAT 1110, 20, 30	Introduction to Analysis I, II, III	
PHY 2010, 20, 30	General Physics I, II, III	
	Social Science Electives	
	Electives	
		-
	Option Sub-total	66
= 5	in the core requirements	– 15
	Core Requirements	48
	TOT	
	1017	AL 99

<sup>&#</sup>x27;Students with at least two years of high school biology or satisfactory ACT scores may, with permission from the Math-Science Division, omit Biology 1110, 20, 30 and enter Biology 2610, 20, 30 directly (see course listings under Biology). If Biology 1110, 20, 30 are elected, Biology 2610, 20 are recommended as electives. If BIO 2610, 20, 30 are elected, one year of foreign language is also recommended.

#### PRE-NURSING OPTION

The pre-nursing curriculum is designed for the student planning to complete the baccalaureate degree at a four-year institution. This program meets the transfer requirements of students entering the junior year of study at The University of Tennessee at Knoxville. Before entering this plan of study, the student should become knowledgeable of specific pre-transfer requirements of other transfer institutions. Since many programs accept a limited number of applicants early in the school year for the next year's class, application should be made at the conclusion of the freshman year at Roane State.

#### SUMMARY OF REQUIRED HOURS

Catalog Number BIO 2310, 20, 30 BIO 2510 BIO 2610 CHE 1010, 20, 30	Course Title  Anatomy and Physiology I, II, III  Microbiology  Genetics  Basic Chemistry I, II, III	4 4
MAT 1110 PSY 1010, 20, 30 PSY 2410 SOC 2010 SOC 2020 SOC 2030 SOC 2110 SOC 2120	Introduction to Analysis I General Psychology I, II, III Child Psychology Introduction to Sociology Social Institutions Social Problems Introduction to Cultural Anthropology Introduction to Prehistory and Archeology Electives  Option Sub-total Less the courses which are in the core requirements Core Requirements	9 3 3 3 3 6 68
	TOTAL	101

#### SECONDARY EDUCATION OPTION

The secondary education curriculum is designed for the student who wishes to take the first two years of a program toward certification. This option will meet the lower division requirements for transfer to a four-year institution granting the baccalaureate degree in secondary education. A student may transfer to a senior college and complete requirements for state certification.

Catalog	Course	Quarter
Number	Title	Hours
ART 1010	Art Appreciation <sup>1</sup>	3
EDU 2010	Introduction to Education	3
HEA 2210	Personal Health	3
HEA 2410	Community Health	3
MAT 2310, 20	Concepts of Mathematics I, II <sup>2</sup>	6
PSY 1010, 20	General Psychology I, II	6
PSY 2210	Educational Psychology	3
PSY 2410	Child Psychology	3

SPE 2410	Basic Speech Communication
	requirements)3
	Electives <sup>3</sup>
	Option Sub-total
	Less the courses which are
	in the core requirements9
	Core Requirements48
	TOTAL 99

MUS 1010 may be substituted for ART 1010.

#### SOCIAL SCIENCE OPTION

The social science curriculum is designed to assist students planning to complete the baccalaureate degree at a four year institution in any one of the following areas: geography, history, political science, psychology, and sociology. In order to meet lower division requirements for transfer to any one of the state's major universities, students should select social science courses from their choice of emphasis and related social science disciplines. Students should also follow the advice of their social science faculty advisor and become acquainted with any pre-transfer requirements the receiving institution may stipulate.

	SUMMARY OF REQUIRED HOURS	
Catalog	Course	Quarter
Number	Title	Hours
SPE 2410	Basic Speech Communication	3
	Sophomore English (In addition to	
	core requirement) <sup>1</sup>	3
	Mathematics (In addition to core	
	requirement)	3
	Humanities Electives <sup>1</sup>	3
	Social Science Electives	
	Electives <sup>1</sup>	
	Option Sub-total	57
	Less the courses which are	
	in the core requirements	6
	Core Requirements	
	T/	
	1(	OTAL 99

<sup>&</sup>lt;sup>1</sup>Students planning to pursue a Bachelor of Artsdegree should take one year of foreign language instead of 3 hours in sophomore literature, 3 hours in humanities electives, and 3 hours general electives.

## SPECIAL EDUCATION OPTION

The special education curriculum is designed for a student who wishes to take the first two years of a program toward certification. This curriculum will meet the lower division requirements for transfer to a four-year institution granting the baccalaureate degree in special education. A student may transfer to a senior college and complete requirements for state certification.

<sup>&</sup>lt;sup>2</sup>Students planning to teach mathematics should take a higher mathematics sequence.

<sup>&</sup>lt;sup>3</sup>Electives should be concentrated in the area of certification.

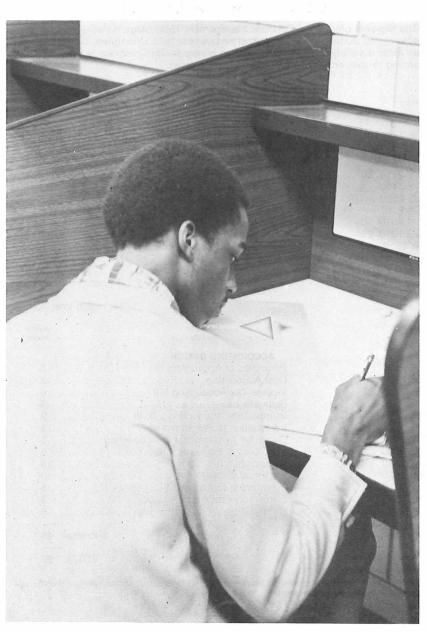
Catalog Number	Course Title	Quarter Hours
BIO 1110, 20, 30	General Biology I, II, III	
EDU 1010	Orientation to the Education of the	12
EDO 1010	Exceptional Child	3
EDU 2410	Human Growth and Development	
EDU 2810	Child Development From Infancy	
LD0 2010	Through Age Eight	3
EDIT 3010 30	Prospective Teacher Cooperative	
EDU 2910, 20		6
MAT 2210 20 20	Practicum I, II	0
MAT 2310, 20, 30 MUS 1010	Concepts of Mathematics I, II, III	
	Music Appreciation	
PED 2810	Teaching Physical Education in the	2
DEV 1010 20	Elementary Schools	
PSY 1010, 20	General Psychology I, II	0
PSY 2210	Educational Psychology	3
PSY 2510	Social Psychology	პ
SOC 2010	Introduction to Sociology	3
SOC 2020	Social Institutions	
SOC 2110	Introduction to Cultural Anthropology	3
SPE 2410	Basic Speech Communication	3
	Sophomore English (In addition to core	0
	requirement)	
	Electives	3
	Option Sub-total	. 72
	Less the courses which are	
	in the core requirements	-21
	Core Requirements	
	Coro ricquiromonio	
	TOTAL	_ 99

## **TECHNOLOGY OPTION**

This program is designed for the student who plans to obtain a Bachelor of Science degree in technology or industrial education.

Catalog	Course	Quarter
Number	Title	Hours
CST 1010	Introduction to Data Processing	
CHE 1110, 20	General Chemistry I, II	
EET 1010, 1020	Electric Circuits I, II	6
EET 1015, 1025	Electric Circuits I, II Lab	2
ERG 1010, 20	Engineering Graphics I, II	6
MAT 1050	Algebra and Trigonometry I	5
MAT 1500	Pre-Calculus	
MAT 2610	Calculus and Analytic Geometry I	5
PHY 2010, 20, 30	General Physics I, II, III	12
	Technology Electives	15
	Option Sub-total	67

TOTAL 100



# CAREER EDUCATION PROGRAMS<sup>1</sup>

## ASSOCIATE OF SCIENCE

## **BUSINESS MANAGEMENT TECHNOLOGY**

The two-year program in Business Management Technology is designed to prepare the interested student in many phases of the business field. Upon graduation, the student may enter a variety of career positions in business. This program is for the student planning to seek employment at the end of two years.

	,	
Catalog Number	Course Tille	Quarter Hours
BUS 1010 BUS 1810 BUS 1820 BUS 2210, 20 BUS 2410 BUS 2510 CST 1010 ECO 2010, 20 ENG 1010, 20 PSY 2610	CORE REQUIREMENTS Introduction to Business Business Mathematics Finance Mathematics Principles of Accounting I, II Business Machines—Computational Legal Environment for Business Introduction to Data Processing Principles of Economics I, II Composition I, II Psychological Aspects of Management Humanities Elective Physical Education Electives Social Science Electives	36336333
	Sub-total	54
Catalog Number	Course Title	Quarter Hours
BUS 2230 BUS 2250 BUS 2310, 20 BUS 2520 BUS 2710, 20, 30 CST 1020 CST 2100 ECO 2030 ENG 1030 ENG 2820 <sup>2</sup> MAT 1110 MAT 2510	=	3

See footnote 1 on page 59 for explanation of possible physical education substitution for evening and off-campus students for all career education programs.

<sup>&</sup>lt;sup>2</sup>Fulfills Humanities Requirement of Core Requirement.

Catalog Number	Course Title	Quarter Hours
BNK 1100 BNK 1120 BNK 1140 BNK 2100 BNK 2150 BNK 2150 BUS 2010 BUS 2230 BUS 2830 BUS 2910 CST 1020	BANKING OPTION Principles of Bank Operations Money and Banking Savings and Time Deposits Federal Reserve System Analyzing Financial Statements Installment Credit Real Estate I Principles of Accounting III Marketing Management and Supervision I Introduction to Programming Business/Banking Electives	4 4 4 4 3 3 3 3
	Sub	-total 48
	ТО	TAL 102
Catalog Number	Course Title	Quarter Hours
BUS 2310 BUS 2320 BUS 2520 CST 1020 ECO 2030 ENG 2820 <sup>1</sup> PSY 1010, 20 SOC 2010 SPE 2410	Cost Accounting Income Tax Accounting—Personal Income Tax Accounting—Business Business Law Introduction to Programming Principles of Economics III Technical Writing General Psychology I, II Introduction to Sociology Basic Speech Communications Business Electives Electives	33333363
	Sub	-total 48
	TC	OTAL 99
 ¹Fulfills Humanities Re	quirement of Core Requirements.	
Course Number	Course Title	Quarter Hours
BUS 2810 FST 1030 FST 1110 FST 2110 INT 1010 INT 1110 INT 1120	INSURANCE OPTION  Salesmanship Industrial Hazards Construction Codes and Fire Protection Standards Inspection Principles and Practices Principles of Insurance Basic Life and Health Insurance Basic Property Insurance	3 3 3 3

INT 1130 INT 2110 INT 2120 INT 2130 SSC 1010 SSC 2210 SPE 2440	Basic Casualty Insurance Advanced Life and Health Insurance Advanced Property Insurance Advanced Casualty Insurance Typing I Office Practice Business and Professional Speaking Insurance/Business Electives	3 3 3 3 3
	Sub-total	45
	TOTAL	99
Course Number	Course Title	Quarter Hours
	GEMENT AND SUPERVISION OPTION	0
BUS 1850 BUS 2270, 80 <sup>1</sup> BUS 2520	Personal Finance	6 3
BUS 2810 BUS 2820 BUS 2830	Salesmanship	3
BUS 2910, 20, 30 BUS 2940	Management and Supervision I, II, III	9 3
ENG 2820 <sup>2</sup> FST 1030 PSY 1010, 20 SPE 2440	Technical Writing	3 6 3
	Sub-total	54

<sup>&#</sup>x27;Substitutes for BUS 2210, 2220.
2Fulfills Humanities Requirement of Core Requirements.

Course	Course	Quarter
Number	Title	Hours
	SAVINGS ASSOCIATION OPTION	
BNK 2120	Analyzing Financial Statements	4
BUS 1110	Business Communications	3
BUS 1850	Personal Finance	3
BUS 2010, 20, 30	Real Estate I, II, III	9
BUS 2810	Salesmanship	
BUS 2910	Management and Supervision	
INT 1010	Principles of Insurance	
SAV 1010	Introduction to Savings Association	
SAV 1110	Savings Accounts	
SAV 1120	Savings Account Administration	3
SAV 2110	Savings Association Operations	
SPE 2440	Business and Professional Speaking	
	Business/Savings Association Electives	
		_

Sub-total 46

TOTAL 99

TOTAL 100

SMALL BUSINESS OPTION	Hours
BUS 1850         Personal Finance         .3           BUS 2270, 80¹         Small Business Accounting I, II         .6           BUS 2310         Income Tax Accounting-Personal         .3           BUS 2320         Income Tax Accounting-Business         .3           BUS 2520         Business Law         .3           BUS 2810         Salesmanship         .3           BUS 2830         Marketing         .3           BUS 2900         Small Business Management         .3           ECO 2030         Principles of Economics III         .3           ENG 2820²         Technical Writing         .3           PSY 1010, 20         General Psychology I, II         .6           SOC 2010         Introduction to Sociology         .3           SPE 2410         Basic Speech Communication         .3           Business Elective         .6           Electives         .3           Sub-total         54	.6 3 3 3 3 3 3 3 3 3 6 3 3 6 3 3 6 6 3 3 6 6

<sup>&</sup>lt;sup>1</sup>Substitutes for BUS 2210, 20.

## **COAL MINING TECHNOLOGY**

The two year Coal Mining Technology program is designed to prepare students for career opportunities in the coal industry. The student must select either the deep or surface mine option, for which training is designed to prepare students for initial entrance into employment and subsequent advancement in private industry or environmental agencies requiring technically trained personnel.

## CORE REQUIREMENTS

Course Number	Course Title	Quarter Hours
BUS 2910 CMT 1020 CMT 1110, 20 CMT 1210	Management and Supervision I	3 6
CMT 1510	Reclamation Techniques and Land Use Planning	
CMT 1610 CMT 1910 CMT 2000 CMT 2110 CMT 2210	Energy and Society Mining Hydraulics Mine Surveying Water Quality Control Mining Internship <sup>1</sup>	3 3 3 3

<sup>&</sup>lt;sup>1</sup>Students may receive credits for on-the-job training or employment experience in the coal industry. Substitutions can be made upon written approval of the department head.

<sup>&</sup>lt;sup>2</sup>Fulfills Humanities Requirement of Core Requirements.

CMT 2310	Coal Analysis and Preparation
CMT 2420 CMT 2430	Plant Technology
CMT 2710	Noise Measurement and Control3
CMT 2810	Mine Blasting and Explosives3
ENG 1010, 20	Composition I, II6
ENG 2820	Technical Writing
FST 1120	Environmental Technology
HEA 2310	Safety and First Aid
MAT 1010, 20	Technical Math I, II6
	Physical Education Activities3
	Social Science Electives9
	<u>*</u>
	Sub-total 87

## **DEEP MINE OPTION**

Course Number	Course Title	Quarter Hours
CMT 1810 CMT 1920 CMT 2010 CMT 2410 CMT 2820 CMT 2910, 20 FST 2020	Mine Rescue Mine Electricity and Hazards Mine Section Layout Mine Safety Management Mine Ventilation Mine Structure: Roof Control I, II Blue Print Reading and Sketching	3 3 3 3
	Sub-total	24
	TOTAL HOURS	111

## **SURFACE MINE OPTION**

Course Number	Course Title	Quarter Hours
BUS 1010	Introduction to Business	3
BUS 1810	Business Mathematics	3
CMT 1310	Soil Sampling and Testing	3
CMT 1710	Surface Mine Revegetation	3
CMT 2610	Remote Sensing	
CMT 2720	Fundamentals of Surface Mine	
	Engineering	3
GGY 1010	Physical Geography I	
		-
	Sub-tot	al 21

TOTAL HOURS 108

Catalog

Number

MAT 1050

Quarter

Hours

#### COMPUTER SCIENCE TECHNOLOGY

The technical society of today is in a state of constant change brought about by automation and technological innovations. The computer is one of the greatest contributors to automation of this decade and also one of the decade's most significant technological achievements. The growth and development of the electronic computer in this decade has created many new jobs in the scientific, engineering, and business fields. The Computer Science Technology curriculum is designed to prepare students to enter into any of these computer related fields.

Two options are offered in Computer Science Technology at Roane State Community College: (1) a scientific computer option, and (2) a business computer option. The scientific option is designed for students interested in scientific and engineering applications of the computer, while the business option is designed for students interested in business data processing.

The Computer Science Technology curriculum has as its primary objectives:

(1)The task of qualifying the student for a successful career as a programmer, systems analyst, or assistant computer center manager if his/her respective option is business, through the orderly presentation of programming languages, business, and managerial courses.

(2)The task of qualifying a student for transferring to a four-year school which has a major in computer science, if he/she chooses the scientific option.

#### SUMMARY OF REQUIRED HOURS

Course

Title

Algebra and Trigonometry I ..................................5

l .	Number	1106	Hours
		CORE REQUIREMENTS	
	CST 1020	Introduction to Programming	3
1	CST 2010	Computers and Society	
Н	CST 2310	Introduction to Systems Analysis	3
ă.	ENG 1010, 20, 30	Composition I, II, III	9
	MAT 1310	Symbolic Logic	
	MAT 2510	Elementary Statistics	3
L		Physical Education Activities	
1			
,		TOTAL	_ 27
	φ.		
7		-	
Į.	Catalog Number	Course Title	Quarter Hours
J.	Number	BUSINESS OPTION	Hours
	BUS 1010	Introduction to Business	2
Ti.	BUS 1810	Business Mathematics	
	BUS 1820	Finance Mathematics	
L	BUS 2210, 20, 30		
	BUS 2910	Principles of Accounting I, II, III	
	CST 2220	Management and Supervision I	ა
T.	CST 2220	RPG Programming	3
1	CST 2240	Systems Analysis	3
J.	CST 2410	Advanced Computer Programming	
	CST 2510 CST 2610		
÷	CST 2810	Management Information Systems Computer Organization and	3
П	001 2010		2
1	ECO 2010, 20, 30	Principles of Economics I, II, III	
	LOO 2010, 20, 30	Filliciples of Economics I, II, III	9

PSY 2610	Psychological Aspects of Management3
SPE 2440	Social Science Electives
	_
	Sub-total 74
	ΤΟΤΔΙ 101

<sup>1</sup>CST 2210 FORTRAN Programming is recommended.

Catalog Number	Course Title	Quarter Hours
	SCIENTIFIC OPTION	110070
CHE 1110, 20, 30	General Chemistry I, II, III	12
CST 2210	FORTRAN Programming	3
	Sophomore English	9
CST 2220	COBOL Programming	
CST 2250	APL Computer Programming	
CST 2510	Advanced Computer Programming	3
CST 2810	Computer Organization and	
	Programming	
HIS 2110, 20, 30	Survey of American History I, II, III	
MAT 1500	Pre-Calculus	
MAT 2610, 20	Calculus and Analytic Geometry I, II	
MAT 2650	Linear Algebra	
PHY 2110, 20, 30	Physics I, II, III	
	Elective	3
		-
	Sub-total	al 78
	707.4	
	TOTAL	105

#### **DIETETIC TECHNOLOGY**

The Associate of Science degree program in Dietetic Technology and Food Service Management provides students with an opportunity to study dietetics at the college level. The curriculum combines general education and technical courses with supervised field work. This program is six quarters in length and is designed to train dietetic technicians who can promote nutritional care and improve food service in hospitals, nursing homes, restaurants, and a variety of other settings. The concept of a two-year training program for dietetic technicians is fully endorsed by the American Dietetic Association.

Calalog Number	Course Title	Quartei Hours
BIO 2510	Microbiology	4
BUS 1810	Business Mathematics	3
BUS 2210	Principles of Accounting	3
BUS 2910, 20	Management and Supervision I, II	6
CHE 1010	Basic Chemistry I	4
	or CHE 1200 (Chemistry for Dietetic 1	Technology)
CST 1010	Introduction to Data Processing	3
DFT 1010	Fundamentals of Food Service	3

DFT 1020 DFT 1030 DFT 1810, 20 DFT 2110 DFT 2210 DFT 2220 DFT 2310 DFT 2410 DFT 2510 DFT 2610 DFT 2810, 20, 30 ENG 1010, 20 PSY 2610	Food Principles
4	

TOTAL HOURS 100

## **ELECTRICAL AND ELECTRONICS TECHNOLOGY**

The Electrical and Electronics Technology program is intended to prepare the student to meet the needs of and to be ready for advancement in construction, manufacturing, installation and service as it applies particularly to industrial, residential and commercial activities. This course is not intended to prepare the graduate to be an engineering technician.

Catalog Number	Course Title	Quarter Hours
BUS 1850	Personal Finance	
CET 2010	Construction Planning	
CMT 1610	Energy and Society	
EET 1010, 20	Electric Circuits I, II	
EET 1015, 25	Electric Circuits I, II Lab	2
EET 1210	Materials and Construction Practices	
EET 1310	Electronics I	
EET 1320	Electronics II	
EET 1315	Electronics I Lab	
EET 1325	Electronics II Lab	1
EET 1610	Electrical Systems Design I	3
EET 1640	Electrical Wiring	
EET 2260	Electrical Troubleshooting	4
ENG 1010, 20	Composition I, II	6
ENG 2820	Technical Writing	
ERG 1010, 30	Engineering Graphics I, III	
:RG 1100	Introduction to Engineering	3
/AT 1010, 20	Technical Math I, II	
MET 1110	Materials of Industry	
MET 2910	Industrial Safety	
ISC 1010	Physics for the Layman	
OC 2010	Introduction to Sociology	
	Physical Education Activities	3

ience Electives										
		т	דר	-^	,	шс	) I I	DC	10	20

#### **ENGINEERING TECHNOLOGY**

The primary objectives of the Engineering Technology program are to provide students with: (1) the basic background information to understand the environment in which they will work, (2) the technical training and experience needed to be productive at job entry level, and (3) the educational foundation necessary to undertake further study. Other objectives include the re-training and upgrading of people already employed.

Engineering Technology degree options are available in Civil, Electrical, Chemical, Mechanical, and Nuclear fields. Two certificate programs related to Civil Engineering are available which are (1) Drafting and Design, and (2) Surveying.

## **SUMMARY OF REQUIRED HOURS**

Catalog Number	Course Title	Quarter Hours
	Core Requirements	
CHE 1110	General Chemistry I	4
CST 2210	FORTRAN Programming	3
ENG 1010, 20	Composition I, II	6
ENG 2820	Technical Writing	
ERG 1010, 20	Engineering Graphics I, II	6
ERG 1100	Introduction to Engineering	3
ERG 1110	Applied Mechanics I	3
EET 1010, 20	Electric Circuits I, II	6
MAT 1050	Algebra and Trigonometry I <sup>1</sup>	5
MAT 1500	Pre-Calculus	
MAT 2610	Calculus and Analytic Geometry I	
PHY 2010	General Physics I	
	Physical Education Activities	3
	Social Science Electives	
	Sub-tot	al 65

Student may substitute MAT 1010 and MAT 1020 for MAT 1050.

Catalog

Chemical Engineering Technology Option	
CHE 1120, 30 General Chemistry II, III	8
CHE 2310, 20 Organic Chemistry I, II	8
CHT 2010, 20, 30 Unit Operations I, II, III	9
CHT 2110 Matter and Energy Balances	2
CHT 2210, 20 Quantitative Analysis I, II	6
CHT 2410 Heat, Mass, and Momentum Transfer	

Course

Quarter

ROANE STATE COMMUNITY	COLLEGE	8
ERG 2110 MET 2910	Thermodynamics	
	Sub-total	44
	TOTAL HOURS	109
Catalog Number	Course Title Civil Engineering Technology Option	Quarter Hours
CET 1000 CET 2010 CET 2110, 20 CET 2210 CET 2220 CET 2250 CHE 1120 ERG 2210 MET 2910	Introduction to Surveying Construction Planning Surveying I, II Soil Mechanics Hydraulics Structural Analysis General Chemistry II <sup>1</sup> Strength of Materials Industrial Safety	3 3 3 3
12	Sub-total	32
1PHY 2020, General Physics II, may b	e substituted for CHE 1120.	
CET 2310	he following technical elective sequences:  Technology Sequence Concrete Technology	3
CET 2410 CET 2510 CET 2810	Traffic and Transportation Technology	3
	Sub-total	12
	TOTAL HOURS	109
OR		
CET 2610 CET 2620 CET 2710 CET 2720	Design Sequence Reinforced Concrete Design	3 3
	Sub-total	12
	TOTAL HOURS	109
Catalog	Course	Quarter
Number	Electrical Engineering Technology	Hours
EET 1015, 25 EET 1310, 20, 30 EET 1315, 25, 35	Option  Electric Circuits I, II Lab  Electronics I, II, III  Electronics I, II, III Lab	9

90	ROANE STATE COMMUNITY C	OLLE GE
EET 2310 EET 2315 EET 2510 EET 2515	Digital Electronics I	1 3
ERG 2530 MCT 1100 PHY 2020	Lab AC/DC Machines Introduction to Minicomputers General Physics II	4
	Sub-total	33
Plus either of the following to	echnical elective sequences:	
EET 1210 EET 2320 EET 2325 EET 2260	Electronics Sequence Materials and Construction Practices Digital Electronics II Digital Electronics II Lab Electronic Troubleshooting Sub-total	3 1 3 ———
	TOTAL HOURS	107
OR	Dawes and Industrial Secure	
EET 1610 EET 1630	Power and Industrial Sequence  Electrical Systems Design I  Elements of Electrical Generation,  Transmission and Distribution	
EET 2520 EET 2525	Industrial Electronics and Control II	3
	Sub-total	10
	TOTAL HOURS	108
Catalog Number	Course Title Mechanical Engineering Technology Option	Quarter Hours
CST 1010 ERG 1120 MET 1010, 20 MET 1110 MET 1210 MET 1310 MET 2910 PHY 2020	Introduction to Data Processing Applied Mechanics II Manufacturing Processes I, II Materials of Industry Industrial Organizations and Institutions Hydraulics and Pneumatics Industrial Safety General Physics II	3 6 3 3 3
	Sub-total	28
Plus either of the	ne following technical elective sequences:	
ERG 2210 MET 2110	<b>Design Sequence</b> Strength of Materials	

ROANE STATE COMM	IUNITY COLLEGE
MET 2210 MET 2310	Basic Tool Design
	Sub-total 14
OR	TOTAL HOURS 107
MET 2410 MET 2510 MET 2610 MET 2810	Production Sequence  Methods and Operations Analysis
	Sub-total 15 —— TOTAL HOURS 108
Catalog	
Number	Course Quarte. Title Hours Nuclear Engineering Technology
	Option
ERG 1120 ERG 2110 MAT 2620 MET 2910 NUC 1010 NUC 2010 NUC 2110 NUC 2110 NUC 2310 NUC 2310 NUC 2510 NUC 2710 PHY 2020, 30	Applied Mechanics II
	Sub-total 43
	TOTAL HOURS 108
	FIRE SCIENCE TECHNOLOGY
entrance into employmemployers requiring Femployed by insurand bureau raters who requirensferring for advance will want to take the	echnology program is designed to prepare students for initial tent or advancement with municipalities, industrial firms, or other Protection option trained personnel. Graduates may also be companies as sales personnel, fire insurance adjusters, uire Fire Service option trained personnel. Students who planted study to UT-Nashville or other colleges leading to a BS degretive Science option. This program has been approved by the on Fire Fighting Personnel Standards and Education.
	SUMMARY OF REQUIRED HOURS
Catalog Number	Course Quarter Title Hours
	CORE REQUIREMENTS General Chemistry I, II

EET 1640 ENG 1010, 20 ENG 2820 ERG 1100 FST 1010 FST 1040 FST 1110 FST 2020 FST 2110 FST 2120 FST 2210 HEA 2310 MAT 1010, 20 POL 2020 SPE 2440	Electrical Wiring
FST 1030 FST 2220 FST 2230 FST 2510 MET 2910	PROTECTION OPTION Industrial Hazards

## **SERVICE OPTION**

Catalog Number	Course Title	Quarter Hours
FST 2010 FST 2040 FST 2060 FST 2080 FST 2610	Fire Fighting Strategy Arson Detection and Investigation Fire Protection Law Methods of Fire Instruction Fire Department Administration Science or Business Elective Technical Electives	3 3 3 3
	Sub-total	24
	TOTAL HOURS	101

## FIRE SCIENCE OPTION

The Fire Science Option is designed for a student who plans to complete a Baccalaureate Degree (B.A. or B.S.). This program is designed to develop fundamental knowledge and skills in Fire Science. A Fire Science major planning to transfer to a senior institution should plan a program to meet specific requirements of the chosen institution.

(Interfaces UTN program.) Catalog Number	Course Title	Quarter Hours
CHE 1110, 20, 30 CST 1010 ENG 2820 FST 1010 FST 1030 FST 1110 FST 2110 FST 2120 FST 2210 FST 2210 HEA 2310 HIS 2110, 20, 30 MAT 1110, 20, 30 PHY 2010, 20, 30 POL 2020 PSY 1010 SPE 2410	General Chemistry I, II, III Introduction to Data Processing Technical Writing Introduction to Fire Science Industrial Hazards Construction Codes & Fire Protection Standards Inspection Principles and Practices Principles of Hydraulics Hazardous Materials Fire Department Administration Safety and First Aid Survey of American History I, II, III Introduction to Analysis I, II, III General Physics I, II, III Tennessee Government and Politics General Psychology I Basic Speech Communication	333
	Option Sub-total Less courses which are in the core requirements — Core Requirements <sup>1</sup>	82 -30 48
	TOTAL HOURS 1	100

<sup>&</sup>lt;sup>1</sup>See Core Requirements for Associate of Arts/Science Transfer Programs on p. 66.

## MEDICAL LABORATORY TECHNOLOGY<sup>1</sup>

The Medical Laboratory Technology program provides students with the opportunity to study the medical laboratory sciences. The curriculum combines general education and science courses with clinical laboratory courses and clinical laboratory experience. The certified Medical Laboratory Technician is qualified to perform diagnostic tests in the medical laboratory.

J	Catalog Number	Course Title	Quarter Hours
7	BIO 2310, 20, 30	Anatomy and Physiology I, II, III	12
	BIO 2510	Microbiology	4
	BIO 2520	Diagnostic Microbiology	4
	BIO 2610	Genetics	
-	CHE 1110, 20, 30	General Chemistry I, II, III	12
	ENG 1010, 20	Composition I, II	6
	MAT 1110	Introduction to Analysis	
	MLT 1010	Introduction to Medical Laboratory Technology	3
	MLT 1020	Orientation to Laboratory Techniques	4
	MLT 2010, 20	Clinical Education I, II	26
	MLT 2110, 20	Medical Biochemistry I, II	10
_	MLT 2210	Hematology	4
	MLT 2310	Immunology	3
CT ac	MLT 2510	Parasitology	3

MLT 2610 MLT 2710, 20	Immunohematology.4Seminar I, II.2Humanities Elective.3Physical Education Activities.3Social Science Electives.9
	TOTAL HOURS 119

Prospective students are advised to submit their requests for admission to the program as early as possible since there are special admission policies. See the admission policies for health occupations. Students may begin the program in fall or spring.

### MEDICAL LABORATORY TECHNOLOGY

(For Certified Laboratory Assistants)

This program is designed for the Certified Laboratory Assistant who has completed a one-year program at an AMA approved school. The CLA without recent work experience may be required to pass a practical examination prior to receiving credit for CLA training.

#### SUMMARY OF REQUIRED HOURS

Catalog Number	Course Title	Quarter Hours
BIO 2310, 20, 30 BIO 2510 BIO 2520 BIO 2610 CHE 1110, 20, 30 ENG 1010, 20 MAT 1110 MLT 2110, 20 MLT 2210 MLT 2310 MLT 2510 MLT 2610	Anatomy and Physiology I, II, III Microbiology Diagnostic Microbiology Genetics General Chemistry I, II, III Composition I, II Introduction to Analysis Medical Biochemistry I, II Hematology Immunology Parasitology Immunohematology Physical Education Activities Social Science Electives	4412631043343
	-	

Sub-total 81 Credit for CLA Training 38

TOTAL HOURS 119

### MEDICAL RECORD TECHNOLOGY<sup>1</sup>

The Medical Record Technology program emphasizes specialized skills in the management of medical records. The medical record technician helps to provide accuracy and efficiency in the management of the patient's records. In smaller health facilities, the medical record technician is in charge of the medical record room. Application of the didactic instruction is provided through clinical experience in local health facilities. The program is accredited by the AMA Committee on Allied Health Education and Accreditation, in collaboration with the American Medical Record Association.

Catalog Number	Course Title	Quarter
BIO 2310, 20, 30	Anatomy and Physiology I, II, II	Hours
BIO 2310, 20, 30		
BUS 1810	Pathophysiology	
CST 1010		
	Introduction to Data Processing	
ENG 1010, 20, 30	Composition I, II, III	
MRT 1010, 20, 30	Medical Records I, II, III	
MRT 1210, 20	Medical Terminology I, II	
MRT 1230	Medical Transcription	
MRT 2310, 20, 30	Directed Practice I, II, III <sup>2</sup>	
MRT 2410	Advanced Medical Records	
MRT 2420	Office Supervision for the Medical	
	Record Supervisor	
MRT 2430	Medical Records Seminar	
PSY 1010, 20	General Psychology I, II	<b></b>
PSY 2610	Psychological Aspects of	
	Management	
SOC 2010	Introduction to Sociology	
SPE 2440	Business and Professional Speaking	
SSC 1010	Typing I (or equivalent)	
	Physical Education Activities	
	Electives	
	Social Science Electives	9
	TOTAL	HOURS 99

<sup>1</sup>Prospective students are advised to submit their request for admissions to the program as early as possible and at least prior to the summer quarter since special admission policies are required for this program.

<sup>2</sup>Contracts with the following institutions are on file for clinical experience:

East Tennessee Baptist Hospital—Knoxville, Tennessee

Lakeshore Mental Health Institute—Knoxville, Tennessee

Park West Hospital-Knoxville, Tennessee

Penninsula Psychiatric Center—Louisville, Tennessee Shannondale Health Care Center—Knoxville, Tennessee

University of Tennessee Memorial Hospital—Knoxville, Tennessee

## MINI/MICROCOMPUTER SERVICE TECHNOLOGY

The Mini/Microcomputer Service Technology program is a broad based, high technology curriculum designed to prepare graduates for multi-point entry into the rapidly growing mini-computer market.

The primary objectives of the program are (1) to offer a technical curriculum for the development of student competency in computer service technology; (2) to provide high level training in the principles and concepts of mini/microcomputer technology; (3) to develop advanced techniques in the service and maintenance of minicomputers and the associated peripheral devices within the computer system; and (4) to provide state-of-the-art computer equipment for hands- on training to support classroom and text material

Catalog Number	Course Title	Quarter Hours
CST 1020	Introduction to Programming	3
EET 1010, 20	Electric Circuits I, II	

Catalog Number EET 1310	Course Title Electronics   ***********************************	
EET 1315	Electronics   Lab	
EET 2510 EET 2530	Power and Control Circuits	
ENG 1010, 20	Eiectrical Machinery	
ENG 2820	Technical Writing	0
MAT 1050	Algebra and Trigonometry I	5
MAT 1500	Pre-Calculus	
MCT 1100	Introduction to Minicomputers	3
MCT 1210	Machine/Assembly Language Programming	3
MCT 1810	Pulse and Switching Circuits	
MCT 1815	Pulse and Switching Circuits Lab	
MCT 2000	Computer Service Internship	6
MCT 2210	Operating Systems	3
MCT 2310	Digital Circuits I	3
MCT 2315	Digital Circuits I Lab	1
MCT 2350	Computer Architecture	
MCT 2355	Computer Architecture Lab	
MCT 2410, 20	Peripherals I, II	
MCT 2415, 25	Peripherals I, II Lab	2
MCT 2610	Computer Systems  Maintenance/Troubleshooting	4
MCT 2700	Integrated Circuits	3
MCT 2705	Integrated Circuits Lab	1
MCT 2810	Data Communication and Interface Design	4
MCT 2900	Advanced Topics	
PED	Physical Education Activities	3
	Social Science Electives	
	Elective	3

TOTAL HOURS 106

## **OPERATING ENGINEERING TECHNOLOGY**

The primary objective of the Operating Engineering Technology Program is to train two-year technicians for employment in one of the four options offered: Grading and Paving Equipment Operator, Plant Equipment Operator, Heavy Duty Repairman, or Universal Equipment Operator.

Other program objectives include re-training and upgrading of employees working in one of these fields of operating engineering.

Catalog	Course	Quarter
Number	Title	Hours
BUS 1850	Personal Finance	3
EET 1110, 20	Electric Fundamentals I, II	6
ENG 1010	Composition I	6
ENG 2820	Technical Writing	3
HEA 2310	Safety and First Aid	3
MAT 1010, 20	Technical Math I, II	6
OET 1010	General Introduction to Operating	
	Engineering and History of the Labor	
	Movement	2

ROANE STATE COMM	IUNITY COLLEGE	97
OET 1020	Introduction to General Construction	•
OET 1030	Power Sources	
OET 1040	UndercarriagesIntroduction to Basic Electricity,	
OET 1110, 20, 30	Hydraulics, and Pneumatics Apprenticeship Field	3
OET 1210	Experiences I, II, III	
	Lubricants	2
OET 1220	General Introduction to Welding, Rigging, Soils, and Compaction	
OET 1230 OET 1240	Function of Grades and Grade Stakes Introduction to Construction	
	Equipment	
OET 2540, 50	Experiences IV, V	
	Physical Education Activities  Program Electives	
	Social Science Electives	
	TOTAL I	HOURS 108
BOLICI	E SCIENCE AND CRIMINOLOGY EDUCATION	N
Students entering the required to satisfactor hours) after which they options will provide s	e Police Science and Criminology Education pro rily complete six core courses in Criminal Just must select either a law enforcement or correct students with an additional fifteen quarter hour	tice, (18 quarter ions option. Both
Students entering the required to satisfactor hours) after which they options will provide s	e Police Science and Criminology Education pro rily complete six core courses in Criminal Just must select either a law enforcement or correct students with an additional fifteen quarter hour	tice, (18 quarter ions option. Both
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog	e Police Science and Criminology Education prorily complete six core courses in Criminal Just must select either a law enforcement or correct students with an additional fifteen quarter hour SUMMARY OF REQUIRED HOURS CORE REQUIREMENTS  Course	tice, (18 quarter ions option. Both is (4 courses) of Quarter
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number	e Police Science and Criminology Education proving complete six core courses in Criminal Just must select either a law enforcement or corrective functional students with an additional fifteen quarter hour summary of required hours core requirements  **Core Required Hours Course Title**	tice, (18 quarter ions option. Both is (4 courses) of Quarter Hours
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number  BUS 2510	e Police Science and Criminology Education prorily complete six core courses in Criminal Just must select either a law enforcement or correct students with an additional fifteen quarter hour SUMMARY OF REQUIRED HOURS CORE REQUIREMENTS  Course	Tice, (18 quarter ions option. Both is (4 courses) of Quarter Hours
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number  BUS 2510  COR 1010  COR 1110	e Police Science and Criminology Education prorily complete six core courses in Criminal Just must select either a law enforcement or correct students with an additional fifteen quarter hour   SUMMARY OF REQUIRED HOURS CORE REQUIREMENTS  Course Title  Legal Environment for Business	Overter Hours 33
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number  BUS 2510  COR 1010  COR 1110  COR 1110	e Police Science and Criminology Education prorily complete six core courses in Criminal Just must select either a law enforcement or correct students with an additional fifteen quarter hour   SUMMARY OF REQUIRED HOURS CORE REQUIREMENTS  Course Title  Legal Environment for Business	Ovarter Hours
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number  BUS 2510  COR 1010  COR 1110  COR 1120  CST 1010	e Police Science and Criminology Education prorily complete six core courses in Criminal Just must select either a law enforcement or correct students with an additional fifteen quarter hour   SUMMARY OF REQUIRED HOURS CORE REQUIREMENTS  Course Title  Legal Environment for Business	Ovarter Hours
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number  BUS 2510  COR 1010  COR 1110  COR 1120  CST 1010  ENG 1010, 20  ENG 2820	e Police Science and Criminology Education prorily complete six core courses in Criminal Just must select either a law enforcement or corrective fudents with an additional fifteen quarter hour students Core REQUIRED HOURS CORE REQUIRED HOURS COURSE Title  Legal Environment for Business	Quarter Hours
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number  BUS 2510  COR 1010  COR 1110  COR 1120  CST 1010  ENG 1010, 20  ENG 2820  HEA 2310	e Police Science and Criminology Education prorily complete six core courses in Criminal Just must select either a law enforcement or corrective functions with an additional fifteen quarter hour students with an additional fifteen quarter hour summary of REQUIRED HOURS CORE REQUIREMENTS  Course Title  Legal Environment for Business Introduction to Corrections Juvenile Delinquency Emerging Rights of Prisoners Introduction to Data Processing Composition I, II. Technical Writing Safety and First Aid	Quarter Hours
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number  BUS 2510  COR 1010  COR 1110  COR 1120  CST 1010  ENG 1010, 20  ENG 2820  HEA 2310  MAT 1010	e Police Science and Criminology Education prorily complete six core courses in Criminal Just must select either a law enforcement or corrective functions with an additional fifteen quarter hour students with an additional fifteen quarter hour summary of REQUIRED HOURS CORE REQUIREMENTS  Course Title  Legal Environment for Business Introduction to Corrections Juvenile Delinquency Emerging Rights of Prisoners Introduction to Data Processing Composition I, II. Technical Writing Safety and First Aid Technical Math I	Quarter Hours
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number  BUS 2510  COR 1010  COR 1110  COR 1120  CST 1010  ENG 1010, 20  ENG 2820  HEA 2310  MAT 1010  POL 1010	e Police Science and Criminology Education prorily complete six core courses in Criminal Just must select either a law enforcement or correct students with an additional fifteen quarter hour support of the select either a law enforcement or correct students with an additional fifteen quarter hour support of the select end of the selec	Ovarter Hours
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number  BUS 2510  COR 1010  COR 1110  COR 1110  COR 1120  CST 1010  ENG 1010, 20  ENG 2820  HEA 2310  MAT 1010  POL 1010  POL 1020	e Police Science and Criminology Education prorily complete six core courses in Criminal Just must select either a law enforcement or corrective functions with an additional fifteen quarter hour students with an additional fifteen quarter hour summary of REQUIRED HOURS CORE REQUIREMENTS  Course Title  Legal Environment for Business Introduction to Corrections Juvenile Delinquency Emerging Rights of Prisoners Introduction to Data Processing Composition I, II. Technical Writing Safety and First Aid Technical Math I	Ouarter Hours
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number  BUS 2510 COR 1010 COR 1110 COR 1110 COR 1120 CST 1010 ENG 1010, 20 ENG 2820 HEA 2310 MAT 1010 POL 1010 POL 1010 POL 1020 POL 1030 POL 2020	e Police Science and Criminology Education prorily complete six core courses in Criminal Just must select either a law enforcement or corrective functions with an additional fifteen quarter hour students with an additional fifteen quarter hours core and tritle.    Course Title	Ovarter Hours
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number  BUS 2510 COR 1010 COR 1110 COR 1110 COR 1120 CST 1010 ENG 1010, 20 ENG 2820 HEA 2310 MAT 1010 POL 1010 POL 1010 POL 1010 POL 1010 POL 1030 POL 2020 PST 1010	e Police Science and Criminology Education proving complete six core courses in Criminal Just was select either a law enforcement or correction and students with an additional fifteen quarter hour students with an additional fifteen quarter hours corrections.    Course Title	Ouarter Hours
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number  BUS 2510  COR 1010  COR 1010  COR 1110  COR 1120  CST 1010  ENG 1010, 20  ENG 2820  HEA 2310  MAT 1010  POL 1010  POL 1020  POL 1030  POL 2020  PST 1010  PST 1110	e Police Science and Criminology Education prorily complete six core courses in Criminal Just must select either a law enforcement or corrective fudents with an additional fifteen quarter hour students with a different selection students with a summary course selection students with a summary course selection	Quarter Hours
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number  BUS 2510 COR 1010 COR 1110 COR 1110 COR 1120 CST 1010 ENG 1010, 20 ENG 2820 HEA 2310 MAT 1010 POL 1010 POL 1010 POL 1010 POL 1020 POL 1030 POL 2020 PST 1010	e Police Science and Criminology Education proving complete six core courses in Criminal Just must select either a law enforcement or corrective fudents with an additional fifteen quarter hour students core REQUIRED HOURS CORE REQUIRED HOURS COURSE Title  Legal Environment for Business	Quarter Hours
Students entering the required to satisfactor hours) after which they options will provide s specialized study.  Catalog Number  BUS 2510  COR 1010  COR 1110  COR 1120  CST 1010  ENG 1010, 20  ENG 2820  HEA 2310  MAT 1010  POL 1010  POL 1020  POL 1030  POL 2020  PST 1010  PST 1110  PST 1110	e Police Science and Criminology Education prorily complete six core courses in Criminal Just must select either a law enforcement or corrective fudents with an additional fifteen quarter hour students with a different selection students with a summary course selection students with a summary course selection	Ouarter Hours

SOC 2010 SOC 2020 SOC 2030 SOC 2130	Introduction to Sociology3Social Institutions3Social Problems3Introduction to Criminology3Physical Education Activities3Social Science Electives9
	Sub-total 84

#### **CORRECTIONS OPTION**

The Corrections Option is designed to serve the educational needs of the region by preparing students for entry into a rapidly growing corrections system, which will continue to accelerate in the near future with the addition of area correctional institutions—both adult and juvenile.

#### **Summary of Required Hours**

Catalog	Course	Quarte
Number	Title	Hours
COR 2010	Correctional Administration and Supervision .	
COR 2020	Cultural Dimensions of Law	3
COR 2030	Treatment in Corrections	3
COR 2200	Practicum in Corrections	6
	Sub-total	15
		_
	TOTAL HOURS	aa

#### POLICE SCIENCE OPTION

The Police Science Option is designed to meet the needs in society for personnel capable of entry and advancement in the law enforcement field. The two-year curriculum emphasizes an academic approach to law enforcement rather than a training approach.

#### SUMMARY OF REQUIRED HOURS

Catalog Number	Course Title	Quartei Hours
PST 2010	Police Administration and Organization	
PST 2130, 40 PST 2200	Police Science III, IV Seminar in Police Problems	
101 2200	Command in Folice Fredricks Thanking	
	Sub-tota	l 15
	TOTAL HOURS	5 99

## RADIOLOGIC TECHNOLOGY<sup>1</sup>

The Radiologic Technology program prepares an individual to accept staff responsibilities associated with X-ray technology. The program requires eight quarters to cover the 2400 hours of clinical experience required by the Joint Review Committee of the American Medical Association.<sup>2</sup> Intersessions of two weeks are given between the summer and fall quarters. The radiologic technology courses are offered at Cumberland Medical Center, Crossville, TN. Graduates are eligible to take the Registry Examination which certifies them as Radiologic Technologists. The program is fully accredited by the American Medical Association.

Catalog	Course	Quarte
Number	Title	Hours
BIO 2310, 20, 30	Anatomy and Physiology I, II, III	12
ENG 1010, 20	Composition I, II	6
RDT 1000, 10, 20, 30	Clinical Education I, II, III, IV,	
2040, 50, 60, 70	V, VI, VII, VIII	53
RDT 1110	Introduction to Radiologic Technology	3
RDT 1210, 20, 30, 2210	Radiographic Positioning I, II, III, IV	12
RDT 1310, 20, 30	Radiographic Principles I, II, III	12
RDT 1410	Terminology	2
RDT 1510, 20	Radiographic Film Evaluation I, II	2
RDT 1610, 2610, 20	Radiation Physics I, II, III	9
RDT 2710, 20	Special Examinations and	
	Equipment I, II	4
RDT 2810	Radiation Protection	3
RDT 2910	Radiographic Pathology	2
RDT 2915, 25	Radiologic Technology Seminar I, II	4
SPE 2430	Interpersonal Communication	3
	Physical Education Activities <sup>3</sup>	3
	Social Science Electives	9

TOTAL HOURS 139

# RADIOLOGIC TECHNOLOGY (For Radiologic Technologists)

This program is designed for the radiologic technologist who has graduated from an A.M.A. approved school of radiologic technology, and is certified by the American Registry of Radiologic Technologists (ARRT).

Catalog	Course	Quarter
Number	Title	Hours
BUS 1810	Business Mathematics	3
BUS 2910	Management and Supervision I	3
ENG 1010, 20	Composition I, II	
PSY 2210	Educational Psychology	3
PSY 2610	Psychological Aspects of Management	
	Social Science Electives	9
SPE 2430	Interpersonal Communication	
	Physical Education Activities <sup>1</sup>	3
	Electives <sup>2</sup>	<u> 6</u>
	Su	b-total 39
	ARRT certification of	credits 60

TOTAL HOURS 99 Due to the large number of hours required in this program, students may petition for exemption from the physical education activities requirement. <sup>2</sup>Approved by Program Director.

A new class is enrolled each summer quarter. Prospective students are advised to submit their request for admission to the program as early as possible and at least prior to the spring quarter since special admission policies are required for this program.

<sup>&</sup>lt;sup>2</sup>Contracts with the following hospitals are on file for the clinical experience:

Chamberlain Memorial Hospital, Rockwood

Cumberland Medical Center, Crossville

Due to the large number of hours required in this program, students may petition for exemption from the physical education activities requirement.

# RECREATION MANAGEMENT AND ADMINISTRATION TECHNOLOGY

The Recreation Management and Administration Technology program leadership curriculum has been designed to provide the postsecondary student with: (1) the basic background information required to understand the environment within which he/she will work, (2) the broad technical training and minimum experience necessary to be a productive employee in an entry-level job, and (3) the educational foundation needed to undertake further study within the field through in-service training, professional short courses, or—to a limited extent—enrollment in a four-year program.

The Recreation Management and Administration program employs a basic core of recreation courses. After taking the basic core courses, students are allowed to select an emphasis in one or more of the following career fields: Camp Administration, Park Administration, Marine Management, and Recreation Leadership.

#### SUMMARY OF REQUIRED HOURS

	SUMMANT OF REQUIRED HOURS	
Catalog	Course	Quarter
Number	Title	Hours
ART 1810	School Art	
BUS 1810	Business Mathematics	
BUS 1010	Introduction to Business	3
ENG 1010, 20, 30	Composition I, II, III	9
	Biological Science <sup>1</sup>	
HEA 2210	Personal Health	
HEA 2310	Safety and First Aid	
PED 2720	Teaching Individual and Dual Sports	3
PSY 1010, 20	General Psychology I, II	6
PSY 2610	Psychological Aspects of Management	
REC 1010	Introduction to Recreation	
REC 1020	Social Recreation	
REC 1030	Outdoor Education	3
REC 1110	Team Sports	3
REC 1310	Arts and Crafts	3
REC 2010	Organization and Administration in	
	Recreation	3
REC 2410	Field Work	
REC 2720	Facilities Planning and Maintenance	3
SOC 2010	Introduction to Sociology	3
SOC 2030	Social Problems	3
SPE 2410	Basic Speech Communication	3
SPE 2730	Introduction to Theatre	3
	Program Electives	
	Physical Education Activities	3
	Social Science Electives	9
	TOTAL HO	
	TOTALTIO	0110 102

<sup>&#</sup>x27;Students desiring an emphasis in Park Administration should take BIO 2210, 20.

#### RESPIRATORY THERAPY

The Respiratory Therapy program emphasizes specialized skills in the diagnosis and treatment of individuals with respiratory abnormalities. The program includes general education courses, respiratory therapy courses, and supervised clinical experience in area hospitals.

1	Catalog Number	Course Title	Quarter Hours
	BIO 2310, 20, 30 BIO 2510 CHE 1010 ENG 1010, 20 MAT 1010 PHY 1110 PSY 2510 RTT 1010 RTT 1110 RTT 1210 RTT 1310 RTT 1410 RTT 1510 RTT 1510 RTT 2610	Anatomy and Physiology I, II, III Microbiology Basic Chemistry I Composition I, II Social Science Elective Technical Math I Introductory Concepts in Physics I Social Psychology Introduction to Respiratory Therapy Oxygen Therapy Pathology and Physical Diagnosis IPPB and Aerosol Therapy Respiratory Pharmacology Airway Management and CPR Equipment and Sterilization	.12 4 6 6 3 4 3 3 6 3
	RTT 2650, 60 RTT 2710, 20 RTT 2810, 20 SPE 2440	Mechanical Ventilation I, II Pulmonary Function I, II Clinical Education I, II Business and Professional Speaking Physical Education Activities	8 .16 3
1		TOTAL HOURS 1	 17

Prospective students are advised to submit their requests for admission to the program as early as possible since there are special admission policies. See the admission policies for health occupations.

# SECRETARIAL SCIENCE

The two-year Secretarial Science program is designed to prepare professionals in many aspects of office work and administration. Proficiency is developed in the skills of typewriting, shorthand, dictation, transcription, office machines, office management, and word processing. The wide scope of courses offered in this program will provide opportunities for increased understanding of the many facets involved in the operation of business today. This curriculum is designed for a student planning to seek employment at the end of two years. Secretarial Science degree emphasis areas are available in the Executive Secretary, General Clerical, and Medical Secretary fields.

П	Catalog	Course	Quarte
Ш	Number	Title	Hours
		CORE REQUIREMENTS	
	BUS 1010	Introduction to Business	3
11	BUS 1110	Business Communications	3
П	BUS 1810	Business Mathematics	3
ш	BUS 2210	Principles of Accounting I	3
	BUS 2410	Business Machines—Computational	3
	BUS 2420	Business Machines—Duplication	
	BUS 2510	Legal Environment for Business	3
	COE 1010	Cooperative Education I	3
	CST 1010	Introduction to Data Processing	
	ECO 2010	Principles of Economics I	3

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Catalog Number	Course Title	Quarter Hours
ENG 1010, 20 PSY 1010 SPE 2410 SSC 1010, 20, 30 SSC 2010 SSC 2210 SSC 2810	Composition I, II General Psychology I Basic Speech Communication Typing I, II, III Typing IV Office Practice Records Management Physical Education Electives Social Science Electives	3 9 3 3 3
	Sub-total	72
Catalog Number	Course Title	Quarter Hours
BUS 2220 ECO 2020 SSC 2110 SSC 1110, 20, 30 SSC 1210	Principles of Accounting II Principles of Economics II Shorthand Transcription Shorthand I, II, III Machine Transcription Sub-total	3 5 15
Catalog Number	Course Title	Quarter Hours
BUS 1850 BUS 2220, 30 <sup>1</sup> ECO 2020 ENG 1030 PSY 1020 PSY 2610 SSC 1210	GENERAL CLERICAL OPTION Personal Finance Principles of Accounting II, III Principles of Economics II. Composition III. General Psychology II Psychological Aspects of Management Machine Transcription Electives  Sub-total	
<sup>1</sup> BUS 2250 Cost Accounting may be s	ubstituted for BUS 2230.	

Catalog Number	Course Title	Quarter Hours
	MEDICAL SECRETARY OPTION	
MRT 1210	Medical Terminology I	
MRT 1220	Medical Terminology II	

ROANE STATE COMMUNITY	COLLEGE	103			
MRT 1230 SSC 1110, 20, 30 SSC 2110	Medical Transcription Shorthand I, II, III Shorthand Transcription	15			
	Sub-total	29			
	TOTAL	101			
CERTIFICATE	OF PROFICIENCY PROGRAM	<b>IS</b>			
CIVIL ENG	INEERING—DRAFTING AND DESIGN (CERTIFICATE)				
need in industry for personn draftsmen who are able to ass	this engineering certificate program is intended t el capable of entry and advancement into engir sistthe engineer in routine calculations and who a uring processes and their capabilities.	neering as			
s	UMMARY OF REQUIRED HOURS				
Catalog Number CET 2010 CET 2250 CET 2610 CET 2710 ENG 2820 ERG 1010, 20 ERG 1110 ERG 2210 EET 1410 MAT 1050 MAT 1500 MET 1010, 20 MET 2010	Course Title  Construction Planning  Structural Analysis Reinforced Concrete Design Structural Steel Design Technical Writing Engineering Graphics I, II Applied Mechanics I Strength of Materials Electronics Drafting I Algebra and Trigonometry¹ Pre-Calculus Manufacturing Processes I, II Piping Drafting	3 3 3 6 3 3 5 5			
	TOTAL HOUF	RS 48			
'Student may substitute MAT 1010 and	d MAT 1020 for MAT 1050.				
CIVIL ENGINEERING—SURVEYING (CERTIFICATE)					
The one-year curriculum is intended to prepare the student to be more proficient in his/her ability to help the professional surveyor in the accomplishment of his/her duties.					
SUMMARY OF REQUIRED HOURS					
Catalog Number CET 1000 CET 2010 CET 2110, 20	Course Title Introduction to Surveying Construction Planning Surveying I, II	3			

CET 2210 CET 2410 CET 2810 ERG 1010, 20 ERG 1110 ERG 2210 ENG 2820 MAT 1050 MAT 1500	Soil Mechanics
	· ·

TOTAL HOURS 47

# ELECTRONICS TECHNOLOGY (CERTIFICATE)

This Electronics Technology program is intended to meet the need in industry for personnel capable of entry and advancement in the highly diversified electronics field. The one-year curriculum emphasizes the practical aspects of electronic application.

## SUMMARY OF REQUIRED HOURS

Catalog Number	Course Title	Quarter Hours
EET 1010, 20	Electric Circuits I, II	
EET 1210	Materials and Construction Practices	2
EET 1310, 20	Electronics I, II	6
EET 1410, 20	Electronics Drafting I, II	4
EET 1640	Electric Wiring	4
ENG 2820	Technical Writing	3
ERG 1010	Engineering Graphics I	3
MAT 1050	Algebra and Trigonometry I	5
MET 1110	Materials of Industry	3
	Natural Science Electives	8
	Social Science Elective	3

TOTAL HOURS 47

# GENERAL CLERICAL (CERTIFICATE)

This one-year General Clerical program is designed for a student interested in an office occupation emphasizing clerical duties. The wide range of courses included in this curriculum provides training for office work in a number of areas; for example—filing clerk, receptionist, typist, word processor, and numerous other general clerical job opportunities.

Catalog	Course	Quarter
Number	Title	Hours
BUS 1010	Introduction to Business	3
BUS 1110	Business Communications	3
BUS 1810	Business Mathematics	3

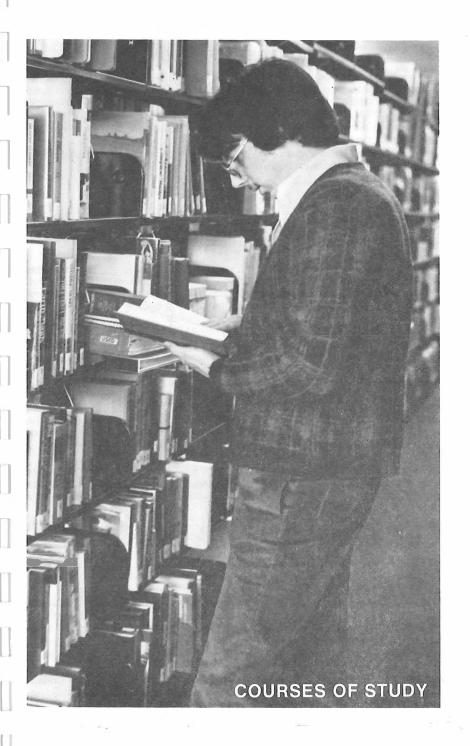
Student may substitute MAT 1010 and MAT 1020 for MAT 1050.

ROANE STATE COMMUNITY COLLEGE			
BUS 2210, 20 BUS 2410 BUS 2420 BUS 2510 CST 1010 ECO 2010 ENG 1010, 20, 30 SSC 1210 SSC 2010 SSC 2210 SSC 2810		Principles of Accounting I, II. Business Machines-Computational Business Machines-Duplication Legal Environment for Business Introduction to Data Processing Principles of Economics I Composition I Typing I, II, III. Machine Transcription Typing IV Office Practice Report Writing/Records Management	3 3 3 3 3 3 9 3 3 3 3 3 3 3 3 3 3 3 3 3
		TOTAL HOURS 5	<u> </u>



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### **COURSES OF STUDY**

In addition to the credit courses of study in each of the following disciplines, the College also offers from quarter to quarter various special courses of study not listed. These courses are offered through the Community Services Program, and all inquiries should be addressed to the Director of Community Services.

Certain courses have prerequisites. However, in limited instances, prerequisites may be waived by the instructor and the Dean of Instruction.

In general, a course in a given discipline may be replaced by a course in the same discipline having a higher catalog number.

#### **ART**

ART 1010—Art Appreciation
ART 1110—Basic Studio I
ART 1120—Basic Studio II
ART 1130—Basic Studio III
ART 1810—School Art
ART 2010—Art History Survey I
ART 2020—Art History Survey II
ART 2030—Art History Survey III—Modern Art
ART 2210—Communication Design
ART 2410—Ceramics I

ART 2420—Ceramics II	
2 hours lecture—4 hours studio	
ART 2430—Cerámics III	
ART 2510—Painting I	
ART 2520—Painting II	
ART 2530—Painting III	
2 hours lecture—4 hours studio	
ART 2540—Watercolor	
ART 2610—Weaving I	
ART 2620—Weaving II	
ART 2710—Introduction to Printmaking	
2 hours lecture—4 hours studio	
ART 2720—Advanced Printmaking	
2 hours lecture—4 hours studio	
ART 2810—Basic Photography	
enlargement. 2 hours lecture—4 hours lab	
ART 2820—Photography II	
Continuation of ART 2810.  2 hours lecture—4 hours studio	
BANKING	
BNK 1100—Principles of Bank Operations(3 AIB Credits) 4 Credit This course presents the fundamentals of bank functions in a descriptive fashion so that the beginning banker may acquire a broad and operational perspective. It reflects the radical changes in banking policy and practice which have occurred in receive years. Topics covered are banks and the monetary system, negotiable instruments, the	

relationship of the commercial bank to its depositors, types of bank accounts, the deposit function, the payments functions, bank loans and investments, other banking services (trust, international, and safe deposit), bank accounting and marketing, external and internal controls, and the public service obligations of banks.

- BNK 1120—Money and Banking .................(3 AIB Credits) 4 Credits
  This course presents the basic economic principles most closely related to the subject
  of money and banking in a context of topics of interest to present and prospective bank
  management. The book stresses the practical application of the economics of money
  and banking to the individual bank. Some of the subjects covered include structure of
  the commercial banking system, the nature and functions of money, banks and the
  money supply; cash assets and liquidity management, bank investments, loans,
  earnings and capital, the Federal Reserve System and its policies and operations,
  Treasury Department operations, and the changing international monetary system.
  (Formerly BUS 2050.)
- BNK 1130—Bank Investments ...................................(3 AIB Credits) 4 Credits
  This course covers the sources and uses of bank funds and the place of investment in
  the overall scheme of bank operations. Especially important are the relationship of
  investments to business and the unique functions, advantages, and purpose served by
  a wide range of securities. Investment terminology is covered in detail.
- BNK 1140—Savings and Time Deposits............(3 AIB Credits) 4 Credits
  This course reflects recognition of the fact that a knowledge of the historical development of savings institutions and an awareness of the basic economic function of the savings process are necessary to an understanding of the current operations and policies of these institutions. It begins with a review of the economics of the savings process in order to clarify important differences between financial savings by individuals or organizations and real savings that appear as capital formation. Different types of financial savings are reviewed in order to describe the system of financial flow from income to capital investment. Also covered are interest rates, types of savings accounts, and the management of savings institutions (asset management, operations and control, supervision, liquidity, and marketing).
- BNK 1150—Trust Functions and Services ............(3 AIB Credits) 4 Credits
  This course presents a complete picture of the services rendered by institutions engaged in trust business. Providing an introduction to the services and duties involved in trust operations, the course is intended for all bankers, not only those who are engaged in trust business. It endeavors to keep clear the distinction between business and legal aspects of trust functions. Topics covered are the history of trust services and institutions, trust powers and government supervision, trust department services, property, wills, settlement of estates, personal and insurance trusts, personal agencies, guardianship, employee benefits trusts, corporate trusts and agencies, investment of trust funds, and management of property and mortgages.
- BNK 1160—Bank Management ......................(3 AIB Credits) 4 Credits

  This course presents new trends which have emerged in the philosophy and practice of management. The study and application of the principles outlined provide new and experienced bankers with a working knowledge of bank management. It should be noted that the course is not one of personnel management, but rather of business management. It touches on objectives, planning, structure, control, and the interrelationship of various bank departments. Since case study is becoming well established as an effective management learning technique, the text also uses illustrative cases.
- BNK 2100—Federal Reserve System ...............(3 AIB Credits) 4 Credits
  This course examines the operations and policies of the Federal Reserve System
  during critical periods over the last 60 years. The approach taken is topical rather than
  chronological, thereby enabling students to compare and contrast Federal Reserve
  policies dealing with similar problems at different periods in time. Attention is given to

international monetary affairs, especially the changing role of gold, economic developments and goals which affect the stability of the American economy, and Federal Reserve efforts to adapt and influence the changing economic environment.

- BNK 2120—Analyzing Financial Statements ..............(3 AIB Credits) 4 Credits
  This course is organized into two main sections: Characteristics of Financial
  Statements and Financial Statement Analysis. The first section serves as a useful
  review of basic accounting principles for those students who have studied accounting.
  For those who have not, this section provides the minimum accounting background
  necessary for profitable study of financial statement analysis. (It should be emphasized, however, that Analyzing Financial Statements is an advanced course and
  difficult for students with little background in accounting.) The second section of the
  course covers goals, methods, and tools of analysis; analysis of profit and loss,
  accounts receivable, inventories, and balance sheets; the relationship of balance
  sheet accounts to sales; and projected statements and cash budgets.

### BNK 2170—Management of Commercial Bank

# **BIOLOGY**

To receive credit for a biology course, the lecture section must be accompanied by a laboratory session during the same quarter.
BIO 1110—General Biology I
NOTE: Students with the equivalent of at least 2 years of high school biology or satisfactory ACT scores may elect BIO 2610, 20, 30 (see course descriptions) instead of BIO 1110, 20, 30.
BIO 1120—General Biology II
BIO 1130—General Biology III
BIO 2100—Field Biology
BIO 2210—Plant Kingdom I
BIO 2220—Plant Kingdom II
BIO 2310—Anatomy and Physiology I
BIO 2320—Anatomy and Physiology II
BIO 2330—Anatomy and Physiology III
A study of the anatomy and physiology of the excretory, digestive, endocrine, reproductive and special sense systems. The laboratory will provide anatomical investigation of and physiological experimentation with these systems.  3 hours lecture—3 hours laboratory
BIO 2350—Pathophysiology

BIO 2410—Invertebrate Zoology
BIO 2420—Comparative Vertebrate Anatomy
BIO 2510—Microbiology
BIO 2520—Diagnostic Microbiology
instructor.)  3 hours lecture—3 hours laboratory
BIO 2610—Genetics
A study of cellular structure and function. (Prerequisite: BIO 1110, 1120, 1130, CHE 1010, 20, 30)
3 hours lecture—3 hours laboratory
BIO 2630—Ecology
3 hours lecture—3 hours laboratory
BIO 2700—2750—Independent Scientific Investigation
BUSINESS AND COMMERCE
BUS 1010—Introduction to Business
Orientation course designed to give an overall view of business as a framework for further detailed study into accounting, data processing, finance, real estate, management, retailing, and marketing. Included are vocational/career opportunities, business terminology, and an appreciation of the methods and procedures used in business to arrive at decisions.
BUS 1110—Business Communications

BUS 1810—Business Mathematics
BUS 1820—Finance Mathematics
BUS 1850—Personal Finance
BUS 2010—Real Estate I
BUS 2020—Real Estate II
BUS 2030—Real Estate III
BUS 2040—Real Estate Appraisal
BUS 2210—Principles of Accounting I
BUS 2220—Principles of Accounting II
BUS 2230—Principles of Accounting III
Covers partnership organizations and operation, cost accounting, corporation capital accounts, earnings and dividends, bonds, funds statement and statement analysis. (Prerequisite: BUS 2220)
BUS 2250—Cost Accounting
BUS 2270—Small Business Accounting
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	BUS 2280—Small Business Accounting
	BUS 2310—Income Tax Accounting—Personal
	BUS 2320—Income Tax Accounting—Business
	BUS 2410—Business Machines—Computational
	BUS 2420—Business Machines—Duplication
	BUS 2510—Legal Environment for Business
	BUS 2520—Business Law
	BUS 2710—Intermediate Accounting I
	BUS 2720—Intermediate Accounting II
l	BUS 2730—Intermediate Accounting III
1	BUS 2810—Salesmanship
ļ	BUS 2820—Retailing
	BUS 2830—Marketing
	BUS 2900—Small Business Management
1	

BUS 2910—Management and Supervision I
BUS 2920—Management and Supervision II
BUS 2930—Management and Supervision III
BUS 2940—Management Seminar
BUS 2950—Labor Relations
CHEMISTRY
To receive credit for a chemistry course, the lecture section must be accompanied by a laboratory session during the same quarter.
CHE 1010—Basic Chemistry I
CHE 1020—Basic Chemistry II
CHE 1030—Basic Chemistry III
NOTE: CHE 1010, 20, and 30 are intended for students in the humanities, the social sciences, home economics, nursing, and many programs in the agricultural sciences. These courses must be taken in sequence.
CHE 1110—General Chemistry I

3 hours lecture—3 hours laboratory

high school algebra or one college level math course.)

3 hours lecture—3 hours laboratory

CHE 1130—General Chemistry III
CHE 1200—Chemistry for Dietetic Technology
CHE 2210—Quantitative Analysis
3 hours lecture—3 hours laboratory
CHE 2310—Organic Chemistry I
CHE 2320—Organic Chemistry II
CHE 2330—Organic Chemistry III
CHE 2700—2750—Independent Scientific Investigation
CHEMICAL TECHNOLOGY
CHT 2010—Unit Operations I
6 hours lecture—laboratory
CHT 2020—Unit Operations II
6 hours lecture—laboratory
CHT 2030—Unit Operations III
CHT 2110—Matter and Energy Balances

CHT 2210—Quantitative Analysis I
4 hours lecture—laboratory
CHT 2220—Quantitative Analysis II
CHT 2410—Heat, Mass, and Momentum Transfer2 Credits
Each student will select a problem in heat mass and/or momentum transfer, determine a solution and present a written and oral report to the instructor.
CIVIL ENGINEERING TECHNOLOGY
CET 1000—Introduction to Surveying
<b>CET 2010—Construction Planning</b>
CET 2050—Civil Drafting I
CET 2060—Civil Drafting II
Course will continue topic covered in Civil Drafting I with additional emphasis on structural design drawing in steel, wood, and concrete. Shop drawings as required in steel and reinforced concrete will be covered. (Prerequisite: CET 2050)  1 hour lecture—6 hours laboratory
CET 2110—Surveying I
Introduction to surveying, chaining and pacing, direct and profile leveling, measurements of angles, transit-tape-traversing, traverse analysis, calculation of areas, adjustment of instruments. (Prerequisite: MAT 1050 or MAT 1010 or 1020)  3 hours lecture—3 hours laboratory
CET 2120—Surveying II
3 hours lecture—3 hours laboratory
CET 2210—Soil Mechanics
Physical properties of soils as applied to civil engineering; index properties, permeability, moisture-density, consolidation and shear strength. (Prerequisite: ERG 2210)
CET 2220—Hydraulics
CET 2250—Structural Analysis

CET 2310—Concrete Technology	
CET 2410—Traffic and Transportation Technology	
CET 2510—Bituminous Technology	
CET 2610—Reinforced Concrete Design	
CET 2620—Advanced Reinforced Concrete Design	
<b>CET 2710—Structural Steel Design</b>	
CET 2720—Advanced Structural Steel Design	
CET 2810—Route Surveying and Highway Design	
COAL MINING TECHNOLOGY	
CMT 1020—Coal Geology	
CMT 1110—Mine Operations and the Law I	
CMT 1120—Mine Operations and the Law II	
CMT 1210—Mining Business and Records	
The student learns to use and interpret the Bureau of Mines Dictionary of Mining, safety films, wage agreements, and forms and reports required by government agencies.	
The student learns to use and interpret the Bureau of Mines Dictionary of Mining, safety	
The student learns to use and interpret the Bureau of Mines Dictionary of Mining, safety films, wage agreements, and forms and reports required by government agencies.  CMT 1310—Soil Sampling and Testing	
The student learns to use and interpret the Bureau of Mines Dictionary of Mining, safety films, wage agreements, and forms and reports required by government agencies.  CMT 1310—Soil Sampling and Testing	
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CMT 1810—Mine Rescue
CMT 1910—Mining Hydraulics
CMT 1920—Mine Electricity and Hazards
CMT 2000—Mine Surveying
CMT 2010—Mine Section Layout
CMT 2110—Water Quality Control
CMT 2210—Mining Internship
CMT 2310—Coal Analysis and Preparation Plant Technology
CMT 2410—Mine Safety Management
CMT 2420—Mining Methods and Equipment Technology
CMT 2430—Gas Detection
CMT 2610—Remote Sensing
CMT 2710—Noise Measurement and Control
CMT 2720—Fundamentals of Surface Mine Engineering
CMT 2810—Mine Blasting and Explosives
CMT 2820—Mine Ventilation

The res esc rec	2900—Special Training for Potential Miners
Bas of I	<b>2910—Mine Structure: Roof Control I</b>
	2920—Mine Structure: Roof Control II
	COMPUTER SCIENCE TECHNOLOGY
An pro bus	1010—Introduction to Data Processing
A b	1020—Introduction to Programming
His arti	2010—Computers and Society
A c ap <sub>l</sub> tior tak	2100—Computer Applications in Accounting
Co	<b>2210—FORTRAN Programming</b>
CC ena "ha	<b>2220—COBOL Programming</b>
RP ma exe	<b>2240—RPG Computer Programming</b>
Intr refi an	<b>2250—APL Computer Programming</b>
Thi em	2310—Introduction to Systems Analysis

CST 2410—Systems Analysis  This course is designed to teach the fundamentals of management by system. The life cycle of a management system is presented in terms of (1) study and design; (2) implementation; and (3) operation, evaluation, and modification. Major emphasis is in the area of analysis and design. (Prerequisite: CST 2310)  CST 2520—Advanced Computer Programming  3 Credits Problem formulation and advanced programming in BASIC-PLUS, FORTRAN and COBOL. (Prerequisite: CST 1020, CST 2210, CST 2220)
<b>CST 2610—Management Information Systems</b>
CST 2700—Management of EDP Function
CST 2810—Computer Organization and Programming
CST 2910—Cooperative Seminar
<b>COOPERATIVE EDUCATION</b>
COE 1010—Cooperative Education I

COE 1020—Cooperative Education II	.3-5 Credits
COE 1030—Cooperative Education III	.3-5 Credits
COE 1040—Cooperative Education IV	.3-5 Credits
A sequence of experiential training. Student must be approved by	the Co-op
Coordinator and an employer for full-time and/or part-time employment	in industry,
business, education or governmental agency to give practical training in t	he student's

Coordinator and an employer for full-time and/or part-time employment in industry, business, education or governmental agency to give practical training in the student's major field of study. A minimum of 30 hours of actual work experience per quarter will be necessary to receive credit. More credit may be given at the discretion of coordinator depending upon the number of hours worked and the significance of the work experience.

# **CORRECTIONS**

COR 1010—Introduction to Corrections	3 Credits
This course includes the history of criminal corrections in the United States; a	analysis of
the crime problem; identification of the correctional client; correctional meth	nods used
in the United States; and emphasizes correctional goals in the criminal justic	e system.
(Formerly PST 2310)	-

COR 2010—Correctional Administration and Supervision 3 Credits
A study of the organizational structure, training techniques, cultural developments,
and administrative concepts of incarceration. Special emphasis will be placed upon
supervision, responsibility, authority, and accountability in the operation of penal
institutions.

### **DEVELOPMENTAL STUDIES**

Roane State Community College offers specialized programs to students in need of intensive preparation for college level academic work. Students are directed into this individualized work on the basis of an evaluation of high school work, placement test scores, recommendation of faculty advisors or personal assessment.

The basic courses are numbered 0100 to 0990 and should not be taken for college transfer credit. Up to six hours of such credit may be used as elective credit toward the Associate Degree. **DVS credit CANNOT be earned after a student has successfully completed a higher level course in the discipline.** 

These courses are not sequential and may be repeated when necessary.

DVS 0620—Basic Science/Chemistry II
DIETETIC TECHNOLOGY
DFT 1010—Fundamentals of Food Service
<b>DFT 1020—Food Principles</b>
DFT 1030—Sanitation and Safety
DFT 1810—Nutrition Care Field Experience I
DFT 1820—Nutrition Care Field Experience II
<b>DFT 2110—Food Purchasing and Cost Control</b>
DFT 2210—Principles of Nutrition
DFT 2220—Therapeutic Nutrition
DFT 2310—Food Systems Administration
DFT 2410—Institutional Menu Planning
DFT 2510—Quantity Cookery

ROANE STATE COMMUNITY COLLEGE 125
DFT 2610—Food and the Consumer
DFT 2810—Food Service Field Experience III
DFT 2820—Food Service Field Experience IV
DFT 2830—Food Service Field Experience IV
ECONOMICS
LOONOWICS
ECO 2010—Principles of Economics I
ECO 2020—Principles of Economics II
ECO 2030—Principles of Economics III
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EDUCATION
<b>EDU 1010—Orientation to the Education of the Exceptional Child3 Credits</b> This course examines the educational and sociological basis for current educational practices. Site visits and supervised observation acquaint the student with services, settings, teacher and paraprofessional roles.
EDU 1110—Introduction to Early Childhood Education

EDU 2010—Introduction to Education
EDU 2110—Driver and Traffic Safety Education
EDU 2310—Audio-Visual Aids
<b>EDU 2410—Human Growth and Development</b>
EDU 2710—Reading in the Elementary School
EDU 2720—Teaching of Basic Reading and Writing Skills to Older
Non-Readers
EDU 2730—Diagnostic Teaching of Reading
This course is designed primarily to provide the student with those diagnostic skill and prescriptive materials that will enable him/her to meet the needs of those pupil who have difficulties in learning to read in the regular classroom situation. (Prerequisite: EDU 2710 or teaching experience.)
EDU 2810—Child Development from Infancy Through Age Eight3 Credit
This comprehensive study of the child from infancy through eight years examine genetic, biological, social, motor, cognitive aspects of development with implication for early childhood education and related fields. (Prerequisite: EDU 2410)
EDU 2820—Creative Activities and Experiences for Young
Children
EDU 2910—Prospective Teacher Cooperative Practicum I
EDU 2920—Prospective Teacher Cooperative Practicum II

1	ROANE STATE COMMUNITY COLLEGE 127
	(Early Childhood Education and Special Education majors prerequisite: EDU 2410 or EDU 2810.)
	EDU 2930—Field Experiences in Early Childhood Education
1	ELECTRICAL AND
	<b>ELECTRONICS TECHNOLOGY</b>
	EET 1010—Electric Circuits I
1	EET 1020—Electric Circuits II
	EET 1015—Electric Circuits Lab I
	EET 1025—Electric Circuits Lab II
	EET 1110—Electric Circuit Fundamentals
1	EET 1210—Materials and Construction Practices
	EET 1310—Electronics I
	<b>EÉT 1320—Electronics II</b>
	EET 1330—Electronics III
1	EET 1315—Electronics Lab I

EET 1335—Electronics Lab III
EET 1340—FCC License Preparation
EET 1410—Electronics Drafting I
EET 1420—Electronics Drafting II
EET 1610—Electrical Systems Design I
EET 1620—Electrical System Design II
EET 1630—Elements of Electrical Generation, Transmission and Distribution
EET 1635—Elements of Electrical Generation, Transmission, and
Distribution Laboratory
Basic principles and practice of modern electrical wiring for residential, commercia and farm installations. Including installation of service entrance and ground, wiring of specific outlets and common switch legs, wiring of heavy appliances, modernization of installation, grounding theory and practice. Requirements of National Electrical Code are emphasized through course.  3 hours lecture—3 hour laboratory
EET 2210—Electronics Project
EET 2250—Special Topics in Electronics

EET 2260—Electronic Troubleshooting
EET 2310—Digital Electronics I
EET 2320—Digital Electronics II
EET 2315—Digital Electronics I Laboratory
EET 2325—Digital Electronics II Laboratory
EET 2510—Industrial Electronics and Control I
EET 2520—Industrial Electronics and Control II
EET 2515—Industrial Electronics and Control I Laboratory
EET 2525—Industrial Electronics and Control II Laboratory
EET 2530—AC/DC Machines
EET 2540—Commercial Electronic System
EET 2560—Electrical Estimation and Pricing

# **ENGINEERING**

ERG 1010—Engineering Graphics I
ERG 1020—Engineering Graphics II
2 hours lecture-4 hours laboratory to be arranged
ERG 1030—Engineering Graphics III
ERG 1050—Elementary Mechanics
ERG 1100—Introduction to Engineering
ERG 1110—Applied Mechanics I
ERG 1120—Applied Mechanics II
ERG 1210—Blue Print Reading and Sketching
ERG 1300—Applied Thermodynamics
<b>ERG 2010—Engineering Mechanics I</b>
ERG 2020—Engineering Mechanics II
<b>ERG 2110—Thermodynamics</b>
ERG 2210—Strength of Materials

ERG 2310—Fluid Mechanics	
Properties of fluids, fluid statics, and fluid flow are covered. (Prerequisite: ERG 2020)  ERG 2700-2750—Independent Engineering Investigation	s r
ENGLISH	
ENG 1010—Composition I	
ENG 1020—Composition II	f
ENG 1030—Composition III	
NOTE: Composition I, II, and III are prerequisite to Sophomore English. Sophomore English requirements may be met with any two of the five Sophomore Literature courses offered-World Literature I, II, III, or American Literature I or II.	
ENG 2110—World Literature I	;
ENG 2120—World Literature II	
ENG 2130—World Literature III	
ENG 2140—American Literature I	
ENG 2160—American Literature II	
ENG 2310—Children's Literature	ŝ
ENG 2810—Creative Writing	f
ENG 2820—Technical Writing	,

# FIRE SCIENCE TECHNOLOGY

FST 1010—Introduction to Fire Science
FST 1030—Industrial Hazards
FST 1040—Fundamentals of Fire Prevention
FST 1050—Personal Fire and Life Safety
<b>FST 1110—Construction Codes and Fire Protection Standards3 Credits</b> A study of fire codes and standards. The course includes a study of modern protection equipment and building construction materials.
FST 1120—Environmental Technology
FST 2010—Fire Fighting Strategy
FST 2020—Blueprint Reading and Sketching
FST 2040—Arson Detection and Investigation
FST 2060—Fire Protection Law
FST 2080—Methods of Fire Instruction

on inspection techniques and the development of technical inspection reports. 3 hours lecture—3 hours laboratory

(Prerequisite: FST 1110)

FST 2110—Inspection Principles and Practices .......4 Credits The course includes the development and philosophy of fire inspection. Emphasis is

FST 2120—Principles of Hydraulics
FST 2210—Hazardous Materials
FST 2220—Water Distribution
A study in applying the principles of hydraulics to fire fighting problems. Attention is also given to water supply problems. (Prerequisite: FST 2120)
FST 2230—Water Suppression Systems
FST 2510—Fire Protection Equipment and Systems
FST 2610—Fire Department Administration
FST 2620—Seminar
FST 2700—Practicum
FRENCH
FRE 1010—Beginning French I
FRE 1020—Beginning French II
FRE 1030—Beginning French III
FRE 2010—Intermediate French I
FRE 2020—Intermediate French II
FRE 2030—Intermediate French III

### GEOGRAPHY

GGY 1010—Physical Geography I
A study of the processes and principles which govern atmospheric activity and world climatic patterns. Subjects of interest include storms (tornadoes, hurricanes, thunderstorms), air pollution, weather modification, and climatic change.
GGY 1020—Physical Geography II
(Earth Physical Systems)  An investigation of the natural environment as a system comprised of landforms, soils, vegetation, and animals, each conditioned by climate. Topics of interest include volcanoes and earthquakes, stream erosion and mountain building, continental drifting and animal distributions, and soil formation and vegetation development. (No prerequisite)
GGY 1030—Introduction to Human Geography
GGY 1040—Environmental Technology: Conservation of
Resources
<b>GGY 2110—World Regional Geography I</b>
GGY 2120—World Regional Geography II
GGY 2130—World Regional Geography III
<b>GGY 2210—Introduction to Economic Geography</b>
GEOLOGY
The geology sequence GEO 1610, 1620, 1630 offers students another branch of science with which to fulfill curriculum requirements.

The GEO 1610, 20, 30 sequence will provide the necessary background in geology in the Mining Technology Program.

The study of materials and structure of the earth. Topics include identification of common rocks and minerals; the earth's interior as revealed by geophysical methods; processes and results of deformation, plate tectonics.

3 hours lecture—3 hours laboratory

GEO 1620—Physical Geology II .......4 Credits The study of geologic processes in landform development. Topics include: ground water; wind and water erosion; deposition; glaciation; regional geomorphic features. Current problems in economic and environmental geology are discussed. (Prerequisite: GEO 1610)

3 hours lecture—3 hours laboratory

The study of the earth's history, physical and biological, as interpreted and fossil records. Topics include: stratigraphy; paleontology; evolution American continent; origin of the earth. (Prerequisite: GEO 1610)  3 hours lecture—3 hours laboratory	from the rock
GERMAN	2 Crodita

GRN 1010—Beginning German I
Introduction to the fundamentals of German grammar. Emphasis on vocabulary
building and the German case system. (Course presupposes no prior German on the
part of the student.)

Continues to build on skills developed in German 1010. Emphasis on the German verb and tense system. (Prerequisite: GRN 1010 or the consent of the instructor.)

Completes survey of basic German grammar. The passive voice and the subjunctive. Elementary readings in German. (Prerequisite: GRN 1020 or the consent of the instructor.)

Reading intermediate texts, grammar review, and oral practice. (Prerequisite: GRN 1030 or equivalent.) (Laboratory required.)

# **HEALTH**

A consideration of principles from the natural, biological, social, and behavioral sciences as they may be applied to healthful living. Emphasis on knowledge, attitudes, and practices related to self-direction of health behavior.

HEA 2310—Safety and First Aid .......3 Credits Designed to provide knowledge and skills which will enable students to meet the needs of most emergency situations. Personal safety and accident prevention information are also incorporated into the course. Upon satisfactory completion of the course, students will receive the American Red Cross Standard First Aid Certificate.

HEA 2410—Community Health ......3 Credits A course designed to give an understanding of basic principles of community health education. Emphasis will be on developing health habits essential to wholesome living.

# HISTORY

Analysis of western civilization from classical antiquity to the Reformation with emphasis on the political, social, economic, and religious themes on which western culture is based.

Western civilization from the mid 16th century, beginning with the Wars of Religion, to

Western civilization from 1860 to the present.

HIS 2110—Survey of American History I
HIS 2120—Survey of American History II

### **HORTICULTURE**

2 hours lecture—2 hours laboratory

2 hours lecture—2 hours laboratory

2 hours lecture—2 hours laboratory

# **HUMANITIES**

# **INSURANCE**

	INT 1120—Basic Property Insurance
	INT 1130—Basic Casualty Insurance
	INT 2110—Advanced Life and Health Insurance
	INT 2120—Advanced Property Insurance
	INT 2130—Advanced Casualty Insurance
	JOURNALISM
	JRN 1110—Introduction to Mass Communications
1	JRN 1510—Journalism Practicum I
J	JRN 1520—Journalism Practicum II1 Credit
]	JRN 1530—Journalism Practicum III
	JRN 2210—Writing for Mass Media
	JRN 2220—Reporting
	JRN 2230—Editing for Mass Media

JRN 2510—Supervised Publications Work I
JRN 2530—Supervised Publications Work II
JRN 2750—Introduction to Broadcasting
A broad, basic course covering organization, comparative systems, regulatory and technical aspects of the broadcasting industry.
MATHEMATICS
MAT 1010—Technical Math I
MAT 1020—Technical Math II
MAT 1050—Algebra and Trigonometry I 5 Credits
Algebraic expressions and operations, factoring, fractions, solving equations and systems of equations, functions, graphing of functions, numerical trigonometry, logarithms, applications. Not to be taken in addition to MAT 1010 and MAT 1020. (Prerequisite: 1 year high school algebra and geometry or consent of instructor.)
MAT 1060—History of Mathematics
MAT 1070—Geometry
MAT 1110—Introduction to Analysis I
MAT 1120—Introduction to Analysis II
MAT 1130—Introduction to Analysis III
MAT 1210—Trigonometry
MAT 1310—Symbolic Logic
MAT 1500—Pre-Calculus

geometry, inequalities, exponential and logarithmic functions, trigonometric functions, systems of equations, and the binomial theorem. (Prerequisite: 2 years of high school algebra or MAT 1050 or MAT 1010, MAT 1020.) Sets, language and rules for operation, history of early number systems, relations and functions, the system of whole numbers. Designed for elementary and secondary education majors. It is desirable, but not required, that the student have had high school algebra and/or geometry. Algorithms for whole numbers, systems of integers and rational numbers, decimals, percentages, number theory, irrational numbers, some basic algebra. A continuation of MAT 2310, designed for elementary and secondary education majors. (Prerequisite: MAT 2310) Interest problems, plane and solid geometry, the metric system, basic statistics, and basic symbolic logic. A continuation of MAT 2320, designed for elementary and secondary education majors. (Prerequisite: MAT 2320) An introduction to elementary methods and techniques. Topics covered include sampling, frequency distributions, elementary probability, binomial distributions, normal distributions, null hypothesis, significance of data. A statistical project of an elementary nature including collecting, presenting and interpreting data is required. Primarily for computer technology and accounting technology majors. (Prerequisite: A college level algebra course or consent of the instructor.) A continuation of hypothesis testing begun in Elementary Statistics I. Topics covered will be confidence intervals, linear regression and correlation, analysis of variance and non-parametric statistics. In addition, the student will be expected to write a computer program for each of the hypothesis tests covered. Prerequisites: MAT 2510, CST 1020 or CST 2210, or equivalent. Elementary theory of probability; frequency and density functions; expected values and variances. Emphasis is on probability distributions and fundamental concepts of statistical inference. Should be taken by students who intend to continue with statistical applications in a later course. Primarily for majors in mathematics, science, and business administration transfer programs. (Prerequisite: MAT 1130 or 2610.) Rate of change, limits, continuity, differentiation, applications of the derivative, introduction to integration. (Prerequisite: 2 years high school algebra, 1 year high school geometry, 1 year high school advanced math or MAT 1500 or consent of instructor.) Application of the definite integral, transcendental functions, integration, determinants and linear equations. (Prerequisite: MAT 2610) Plane Analytic Geometry, hyperbolic functions, polar coordinates, vectors and parametric equations. (Prerequisite: MAT 2620)

series. (Prerequisite: MAT 2630)

advances.

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Euclidean n-space, linear independence, basis, inner product, cross product, norm, systems of linear equations, matrices and elementary matrix operations, characteristic equation and eigenvalues, introduction to linear functions and vector spaces. (Prerequisite: MAT 2620)

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### **MECHANICAL TECHNOLOGY**

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This course is designed to provide a background of knowledge covering the various manufacturing materials and the fundamental types of manufacturing methods as employed in cold working processes. Through lecture, demonstration, and practical applications the student is given the opportunity to become familiar with the various types of machine tools, tooling, measuring, and inspection procedures. Automation is introduced and information is presented to acquaint the student with the modern practices of numerical control for machine tools and the uses of transfer and special machines.

2 hours lecture—3 hours laboratory

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This course is designed to provide a background of knowledge covering the various manufacturing materials and the fundamental types of manufacturing methods as employed in hot working processes. Through lecture, demonstration, and discussion the student becomes familiar with the various types of welding processes and their applications, with special machining operations such as ultrasonic, electrical discharge, electroarc, and chemical milling, and with bonding practices and the use of adhesives in modern manufacturing. Some emphasis is also given to metallurgical practices and procedures. Practical experience is gained by the student in performing simple arc and oxyacetylene welding operations, in producing simple molds, cores, and castings, and in basic heat treating, inspection, and testing, using both destructive and nondestructive methods. (Prerequisite: MET 1010)

2 hours lecture—3 hours laboratory

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A description and analysis of roles of labor and management in the economy. Approximately one-half of the classroom time is devoted to labor-management relations, including the evolution and growth of the American labor movement and the development and structure of American business management. A study is made of the legal framework within which labor-management relations are conducted and the responsibilities of each in a democratic system of government. The second half of the course pertains to labor economics as applied to the forces affecting labor supply and demand, problems of unemployment reduction and control, and wage determination

on the national, plant, and individual levels. Emphasis centers upon current practical aspects of our industrial society with historical references intended only as background material to interpret trends and serve as points of departure. A study of the basic components of hydraulic and pneumatic systems and how they are combined to build up various circuits. The emphasis is on the use of hydraulics and pneumatics for power transmission and for control purposes. Both areas are treated as basic sciences with emphasis on mathematical analysis and the scientific method. It is recommended that individual term problems requiring a significant amount of handbook design be required for this course. 2 hours lecture—3 hours laboratory A two course sequence. Design and layout of heating and air conditioning systems, (hot water, steam warm air, radiant, electrical and solar), basic principles in determining heat gain and heat losses in structures, selection and use of equipment for year-round conditioning. Fundamental principles of designing pipe systems, including development of diagrams, arrangements and schemes with information concerning standards and specifications of the components in typical systems. (Prerequisite: ERG 1010) 1 hour lecture—6 hours laboratory MET 2110—Machine Design ......3 Credits A course in which the design principles of manufacturing elements are taken up and calculations are made in determining the size and shape of various machine parts. It includes factors which influence the selection of materials to be used in designing such elements as beams, bearings, clutches, brakes, shafts, bushings, screens, rivets, gears, belts, and fly wheels. Attention is given to various types of loading conditions, stresses, deformations, fits, finishes, and other factors which must be considered in the design of machine elements. (Prerequisite: ERG 2210) Lectures, classroom discussion, and actual drawing practice are combined to help the student gain knowledge and experience necessary to design tools commonly used in modern manufacturing. The work consists of designing and laying out cutting tools. gauges, simple jigs, fixtures, and dies. Mass production methods are discussed so that the student may apply the information gained in the practical work of tool designing. (Prerequisites: ERG 1010, MET 1010) 1 hour lecture—9 hours laboratory MET 2310—Design Problems ......4 Credits Opportunities in advanced drafting room practices are offered in this course. The student applies his/her knowledge of mathematics, science, and drawing to practical problems while he/she is designing complete machines or component parts of

machines. He/she halyzes the problem, gathers data, sketches ideas on paper, does all necessary mathematical calculations, makes working drawings, and finally checks his/her work. Throughout the course he/she is encouraged to use his/her judgment and work on his/her own initiative. (Prerequisites: ERG 1010, MET 1010)

1 hour lecture— 9 hours laboratory

MET 2410—Methods and Operations Analysis

Understanding of the techniques used in determining the best way of doing a specific

Understanding of the techniques used in determining the best way of doing a specific piece of work is developed through the systematic study of methods, materials, tools, and equipment for the purpose of finding the most economical way of doing the work, standardizing the methods and procedures to be used, and determining the time required by an average worker to perform the various tasks. Laboratory activities

include the analysis of the fundamental physical motions, the construction of various charts, the practice of dividing operations into elementary and time study observations. Additional experience is gained in recognizing and giving value to foreign elements, allowances, and performance rating, and in calculating average cycle time, minimum observations, and standard times.

3 hours lecture—3 hours laboratory

practical manufacturing operations and processes so that assignable causes and weaknesses in a process can be readily isolated and recognized.

2 hours lecture—3 hours laboratory

3 hours lecture—3 hours laboratory

MET 2710—Process Planning .......4 Credits

A comprehensive study of the fundamental principles, practices, and methods of process planning. The responsibilities and range of activities normally associated with process planning are surveyed; also the relationship of process planning to other manufacturing functions in the course is made meaningful by reference to concrete examples, interpretation of charts, operation analysis, and routing forms. Student participation is provided through selected case problems having single or multiple solutions. Additional classroom activities include the actual process planning of selected jobs in terms of description and sequence of operations, set-up time estimating, feed and speed calculations, process and machinery selection.

3 hours lecture—3 hours laboratory

MET 2810—Production Problems .......4 Credits

A detailed study is made of various production activities and the problems associated with them. Problems and cases are solved through the use of available data in texts and engineering handbooks. Discussion of each topic begins with a consideration of the nature of the problem and continues with a presentation of the detailed approach to be employed in its solution. Some problems deal with the analysis of the elements of production scheduling. Others deal with methods of determining production costs in terms of labor, material, and burden. Balancing work stations on production lines by graphic, as well as mathematical means to achieve constant flow and calculating machine capacities to establish completion dates, represent a major portion of the laboratory work.

1 hour lecture—9 hours laboratory

A course to acquaint the student with safety in industry including the basic philosophy of safety programs and administrations, policies and procedures of accident preventions, and compliance with requirements of OSHA.

# **MEDICAL LABORATORY TECHNOLOGY**

WEDICAL LABORATORY TECHNOLOGY
MLT 1010—Introduction to Medical Laboratory Technology3 Credits Introduction to the objectives and goals of Medical Laboratory Technology. Orientation to the health care team, and to the organization and operation of the clinical laboratory. Introduction to medical terminology, medical ethics, and laboratory records. (Prerequisite: Permission from Program Director)
MLT 1020—Orientation to Laboratory Techniques
MLT 2010—Clinical Education I
MLT 2020—Clinical Education II
MLT 2110—Medical Biochemistry I
3 hours lecture—6 hours laboratory
MLT 2120—Medical Biochemistry II
MLT 2210—Hematology
3 hours lecture—3 hours laboratory
MLT 2310—Immunology
2 hours lecture—3 hours laboratory
MLT 2510—Parasitology
2 hours lecture—3 hours laboratory
MLT 2610—Immunohematology
3 hours lecture—3 hours laboratory

3 hours lecture—3 hours laboratory

MLT 2710—Seminar I	
MLT 2720—Seminar II	it
MEDICAL RECORDS	
MRT 1010—Medical Records I	d e is
MRT 1020—Medical Records II	e e y d
2 hours lecture—3 hours laboratory	
MRT 1030—Medical Records III  Introduction to the disease and operation classification and the indexes maintained in the medical record department. Instruction in SNDO as a nomenclature and laborator practice in the coding and indexing by ICDA. Legal aspects of medical records are introduced. Special attention is given to consents, authorizations, release of information and handling medical records in court. (Prerequisite: MRT 1020) (Corequisite MRT 1230) (BIO 2330 is a Prerequisite or Corequisite)  2 hours lecture—3 hours laboratory	n y e a-
MRT 1210—Medical Terminology I	s
Introduction to the principles of medical terminology and the use of word elements a building blocks for medical terminology. (Corequisite: MRT 1010)	
MRT 1220—Medical Terminology II	
MRT 1230—Medical Transcription	n. e e
WILL 2310—Directed Practice	5

Actual practice under the direction of a Medical Record Practitioner in a local hospital department. Orientation to the admitting office and medical record department. Practice in the admitting and discharge procedure plus filing methods. (Prerequisite: MRT 1030) (Corequisite: MRT 2410)

9 hours clinical experience

systems.

HOANE STATE COMMONTT COLLEGE	143
MRT 2320—Directed Practice II  Hospital practice in coding and indexing and in statistical c Actual practice in the release of information. (Prerequisite: N MRT 2420)	ompilation and reports.
9 hours clinical experience	
MRT 2330—Directed Practice III  Hospital practice in medical transcription and other secretar various medical meetings, minute taking and contact with requisite: MRT 2320) (Corequisite: MRT 2430)  9 hours clinical experience	ial skills. Attendance at
MRT 2410—Advanced Medical Records  Special attention is made to the requirements of accrediting agin medical records. Emphasis is placed on new governmen Special instruction in audit and Utilization Review. (Corequise	gencies plus new trends t laws and regulations.
MRT 2420—Office Supervision for the Medical Record	
Supervisor  Introduction to the field of organization and management plus plustruction in office arrangement and design and equipmer experience in organization charts, procedure manuals, bupurchasing. (Corequisite: MRT 2320)	personnel management. It selection. Laboratory
MRT 2430—Medical Records Seminar  This quarter will be devoted to individual research projects to t (Corequisite: 2330)	
<b>MILITARY SCIENCE (RO</b>	TC)
MS 1110—Fundamentals of Military Leadership and	
Management  A study of the development of American military institutions, potraditions in peace and war from colonial times to the present effective and ineffective leadership and application of the prince exercises in leadership development.	. Historical examples of
MS 2110—Applied Military Leadership and Management I Concentrated study of leadership. Factors which affect huma functions, principles, and traits. Development of leadership quexercises. Military teaching principles and development or requisite: MS 1110)	an behavior. Leadership lalities through practical
MS 2120—Applied Military Leadership and Management II  The contemporary world scene and its impact on the military and presentation of briefings and continued development of Ie practical exercise. Discussion of the ROTC Advanced Course.	y. Planning, preparation eadership skills through
NOTE: Additional information concerning the Army Reserve C (ROTC) program may be obtained from the Counselin Academic Advisement, or the ROTC instructor.	
MINI/MICROCOMPUTER SE	RVICE
TECHNOLOGY	
MCT 1100—Introduction to Minicomputers  Introduces the student to the basic organization and operation includes an introduction to computer logic hardware and soft within a computer, identification of major hardware compone concepts of programming, as well as the basic structure and a systems.	on of a digital computer. ware, movement of data nts and their interaction,

MCT 1210—Machine/Assembly Language Programming	ing o of the gand
MCT 1810—Pulse and Switching Circuits	ligita solid
MCT 1815—Pulse and Switching Circuits Lab1 C	
The student completes laboratory exercises designed to emphasize lecture mathrough the design, construction, and evaluation of pulse circuits. (Lab to be concurrently with MCT 1810)	
3 hours laboratory	
MCT 2000—Computer Service Internship	kperi- Ivisoi
MCT 2210—Operating Systems 3 Cr	
A study of the interrelationships of hardware and software at the system level, an functional operation and utilization of compilers, operating systems, and user programs. Emphasis is placed on the ability to discern between hardware and soft faults and the use of operating systems and customer software to debug hard sourced faults in systems. (Prerequisite: MCT 1100 or consent of instructor)	-type
MCT 2310—Digital Circuits I	tems hasis arry a
MCT 2315—Digital Circuits I Lab1 C	redif
Use of digital devices to implement and verify logic circuits performance as press in lecture. (Lab to be taken concurrently with MCT 2310) (Same as EET 2315) 3 hours laboratory	
MCT 2350—Computer Architecture 3 Cre	
An in-depth study of the design and organization of the computer processor emphasis on minicomputers. Areas of study include arithmetic and logic unit, ti and control, memory elements, bus characteristics and I/O operation and co (Prerequisite: MCT 1210, MCT 2310 or EET 2310)	ming
MCT 2355—Computer Architecture Lab	the
2350) 3 hours laboratory	
MCT 2410—Peripherals I	edits
A study of the architecture and functional operation of computer peripherals of the stock, paper, and visual media, such as card and paper tape readers and punctions of writers, TTY's, and display terminals. Emphasis will be on the proceperipheral control dialogue and data transfer. (Prerequisite: MCT 2350)	card ches,

ROANE STATE COMMUNITY COLLEGE	147
MCT 2415—Peripherals I Lab  Lab sessions provide practice in electromechanical alignment and tro techniques. (Lab to be taken concurrently with MCT 2410)  3 hours laboratory	_
MCT 2420—Peripherals II  A study of the architecture and functional operation of mass storage and access devices including magnetic drums, disk, and tape units. The programming and control will be emphasized. (Prerequisite: MCT 235)	direct memory function of I/O
MCT 2425—Peripherals II Lab  Provides practical experience in the maintenance and troubleshooting devices under analysis. (Lab to be taken concurrently with MCT 2420 3 hours laboratory	of peripheral
MCT 2610—Computer Systems Maintenance/Troubleshooting  A final course of study in computer hardware and software. Empha determination of either hardware or software failures with extensive lab equipment with simulated or actual failures along with concentration diagnostic programs to identify and isolate a faulty device or sub-syste preventive maintenance at the systems and component level. (Prere 2410, MCT 2420, MCT 2350, MCT 2210)  3 hours lecture—3 hours laboratory	asis is on the time utilizing on the use of em, as well as
MCT 2700—Integrated Circuits  Provides the student with an understanding of the operation and practice of linear and digital integrated circuits. Efficient hardware implent evaluation techniques are developed through analysis of manufacture tions and design criteria. (Prerequisite: MCT 1810)	al applications nentation and
MCT 2705—Integrated Circuits Lab  Classroom subject areas are continued into the lab for practical, hands- analysis experience. (Lab to be taken concurrently with MCT 2700)  3 hours laboratory	
MCT 2810—Data Communication and Interface Design	A/D and D/A cteristics and terfaces to the I troubleshoot-
3 hours lecture—3 hours laboratory  MCT 2900—Advanced Topics	ed nature such
MUSIC	
THEORY AND LITERATURE	
MUS 1010—Music Appreciation  Open to all students who desire a better understanding of music. In th course music of the popular culture as well as traditional art music wi through class lecture as well as weekly listening assignments.	is one-quarter

MUS 1020—Fundamentals of Music,
MUS 1110—Theory
MUS 1120—Theory
MUS 1111—Theory Practicum1 Credit
MUS 1121—Theory Practicum
2 hours laboratory
MUS 1112—Keyboard Practicum1 Credit
MUS 1122—Keyboard Practicum
MUS 2010—Introduction to Music Literature I
MUS 2020—Introduction to Music Literature II
MUS 2030—Introduction to Music Literature III
MUS 2110—Advanced Theory
MUS 2120—Advanced Theory
MUS 2130—Advanced Theory
MUS 2111—Advanced Theory Practicum
MUS 2121—Advanced Theory Practicum
MUS 2131—Advanced Theory Practicum
MUS 2112—Advanced Keyboard Practicum
MUS 2122—Advanced Keyboard Practicum1 Credit
MUS 2132—Advanced Keyboard Practicum

#### **APPLIED MUSIC: ENSEMBLES**

Non-music majors are invited to participate in as many of the music courses as possible, particularly chorus and band. Membership for all ensembles is by permission of the director. Members are expected to attend all rehearsals and performances. Failure to do so will result in dismissal from the ensemble and a failing mark for the quarter.

1	MUS 1050—Chorus
	MUS 1060—Madrigal Singers
1	MUS 1070—Small Instrumental Ensembles
1	MUS 1080—Concert Band
	MUS 1090—Jazz Band
l	APPLIED MUSIC: CLASS INSTRUCTION
	Class piano or class voice is offered for secondary, applied or non-music majors.
3	MUS 1510—Class Lessons in Voice I1 Credit
	MUS 1520—Class Lessons in Voice II
	MUS 1610—Class Piano I
I	MUS 1620—Class Piano II
]	MUS 1630—Class Piano III
1	APPLIED MUSIC: INDIVIDUAL INSTRUCTION
	Private lessons in voice, organ, piano, or other instruments may be taken each quarter for one or two quarter hours credit. Any student may take private lessons, but only students performing at the college level will receive academic credit. Scheduling

Requirements include appearance in solo classes and performance before a faculty jury at the close of each quarter. A recital is required for music majors in their applied major field during their second year of study. All students taking applied music are required to attend all solo classes and other selected performances. The music department reserves the right to request qualified students to participate in recitals and other musical programs for the benefit of the College and the community. A minimum of ten hours practice per week is required.

MUS	1211-21-31—Individual	Instruction in	Brass Instruments 1 Credit
MUS	2211-21-31—Individual	Instruction in (One lesson	Brass Instruments1 Credit
MIIS	1212-22-32—Individual	,	Brass Instruments 2 Credits
			Brass Instruments 2 Credits
IVIUS	2212-22-32—Illulvidual	(Two lessons	
MUS	1311-21-31—Individual	Instruction in	Woodwinds 1 Credit
MUS	2311-21-31—Individual	(One lesson	Woodwinds 1 Credit per week)
MUS	1312-22-32—Individual	Instruction in	Woodwinds2 Credits
MUS	2312-22-32—Individual	Instruction in (Two lessons	Woodwinds2 Credits s per week)
MUS	1411-21-31—Individual	Instruction in	Strings1 Credit
MUS	2411-21-31—Individual	Instruction in (One lesson	Strings1 Credit per week)
MUS	1412-22-32—Individual	Instruction in	Strings2 Credits
MUS	2412-22-32—Individual	Instruction in (Two lessons	Strings
MUS	1511-21-31—Individual	Instruction in	Organ1 Credit
MUS	2511-21-31—Individual	Instruction in (One lesson	Organ1 Credit per week)
MUS	1512-22-32—Individual	Instruction in	Organ2 Credits
MUS	2512-22-32—Individual	Instruction in (Two lessons	Organ
-MUS	1711-21-31—Individual	Instruction in	Piano1 Credit
MUS	2711-21-31—Individual	Instruction in (One lesson	Piano1 Credit per week)
MUS	1712-22-32—Individual	Instruction in	Piano2 Credits
MUS	2712-22-32—Individual	Instruction in (Two lessons	Piano
MUS	1911-21-31—Individual	Instruction in	Voice1 Credit
			Voice1 Credit
MUS	1912-22-32—Individual	Instruction in	Voice2 Credits
MUS	2912-22-32—Individual		Voice2 Credits
		(Two lessons	s per week)

NOTE: The student may receive credit for one full year's Individual Instruction on each level: one thousand level courses and two thousand level courses.

## NATURAL SCIENCE

These natural science courses are designed to provide the student a brief exposure to various disciplines in the natural sciences. They assume little or no background in either mathematics or science, and are therefore suitable for the non-scientist. The courses have no prerequisites and may be taken individually or in any sequence. Each course meets for three hours lecture and two hours laboratory per week.

These courses may be used to satisfy the natural science requirement in the Associate of Arts or Associate of Science degree programs in art, music, business, and education. They may also be taken for general elective credit in most curricula; as such, they can also be used to aid the student in choosing a field of study or in preparing himself/herself for additional science courses. However, these courses will not satisfy any part of the science requirements in chemistry, mathematics, physics, pre-engineering, predentistry, pre-pharmacy, pre-medicine, pre-nursing, physical therapy, respiratory therapy, or medical technology. NSC 1010—Physics for the Layman .......4 Credits An introductory survey of selected topics in physics, treated on a descriptive level with a minimum of mathematics. The course concentrates on fundamental concepts and principles rather than technical applications. Topics will include the following: classical laws of motion; universal gravitation; theory of relativity; sound, music, and acoustics; light and optics; energy forms and transformations; electromagnetism; atomic and nuclear physics. The laboratory is designed to illustrate and reinforce the lecture discussions and to emphasize the role of experiment in science. (No credit is given to any student who has successfully completed PHY 2010 or PHY 2110.) 3 hours lecture—2 hours laboratory A course which takes an ecological approach in analyzing the impact of human activities upon natural systems. Attention is given to scientific resource management principles in such areas as forestry, wildlife, soils, and water. Field observation and monitoring exercises are included in the laboratory sessions. 3 hours lecture—2 hours laboratory NSC 1230—Survey of Earth Science .......4 Credits An introductory course designed to provide an exposure to the basic principles of physical and historical geology. Subjects considered include the nature of the earth's crust, geological processes, the geologic time scale, and paleontology. (No credit is given to any student who has successfully completed GGY 1020 or any geology 3 hours lecture—2.hours laboratory NSC 1310—Chemistry for the Changing Times ......4 Credits An introduction to chemistry and the role it plays in our society and life style. Topics will include chemistry and society; composition and characteristics of materials such as food, water, drugs, plastics, detergents, vitamins and poisons; pollution and pollution control; nuclear energy. (No credit is given to any student who has successfully completed CHE 1010 or CHE 1110.) 3 hours lecture—2 hours laboratory A descriptive survey of the major areas of astronomy. Topics include the following: the

A descriptive survey of the major areas of astronomy. Topics include the following: the earth-moon system; the sun and the solar system; recent discoveries concerning the planets; the nature of stars; galaxies; ancient and current theories of the universe. Laboratory experiences will include naked eye and telescopic viewing of the heavens.

3 hours lecture—2 hours laboratory

3 hours lecture—2 hours laboratory

3 hours lecture—2 hours laboratory

#### **NUCLEAR TECHNOLOGY**

NUC 1010—Introduction to Nuclear Technology
A survey of nuclear science at the introductory level. Topics include nuclear physics, reactors, nuclear hazards and safety.
NUC 2010—Nuclear Physics

Nuclear structure and stability; radioactive decay; nuclear reactions; fission and fusion; reaction cross-section; nuclear energy.

## **OPERATING ENGINEERING TECHNOLOGY**

**OET 1020—Introduction to General Construction Power Sources** ...... **2 Credits**To provide the trainee with basic knowledge relevant to 2-stroke cycles and 4-stroke cycle internal combustion engines; operation of gasoline and diesel engines; a basic understanding of the combustion process and the hardware involved in providing clean airfor combustion needs; and familiarize the student with the problems involved in eliminating waste heat from the engines, and the methods required to overcome these problems.

**OET 1030—Basic Engineer Power Trains and Undercarriages .........2 Credits**Provides a basic knowledge of mechanical power transmission and the rolling and carrying components of heavy construction equipment, and gives the trainee some understanding of the component parts, capabilities and limitations.

OET 1040—Introduction to Basic Electricity, Hydraulics
and Pneumatics
OET 1110—Apprenticeship Field Experiences I
OET 1120—Apprenticeship Field Experiences II
OET 1130—Apprenticeship Field Experiences III
Field Course (On the job training, continuous learning, practicum). The program will consist of about 500, 500, 1,000 hours respectively of fairly consistent employment with one or more general contractors. The work program must meet the standards of the IUOE. The students will be under the supervision of a journeyman, or higher, employed by the contractor, a member of the joint committee, IUOE and a college representative.
<b>OET 1210—Introduction to Fuels, Oil, and Lubricants</b>
OET 1220—General Introduction to Welding, Rigging, Soils and
Compaction
<b>OET 1230—Function of Grades and Grade Stakes</b>
<b>OET 1240—Introduction to Construction Equipment</b>
OET 2010—Earth-moving Equipment
<b>OET 2020—Grades and Plans for Operating Engineers</b>
<b>OET 2030—Mining and Tunneling Equipment</b>
<b>OET 2110—Electrical Systems and Electronics</b>
<b>OET 2120—Material Processing and Application</b>
OET 2130—General Construction Equipment, Structure of Components,
Seals, and Sealants

OET 2210—Paving Equipment
To provide the trainee detailed information on all types of paving equipment. To teach the controls, operation, and operator maintenance on all types of paving equipment
OET 2220—Revolving Shovel and Crane Equipment
To provide the trainee detailed information on revolving type construction equipment To give specific details on nomenclature and description, uses, servicing, preventive maintenance, minor repairs, uprighting and recovery, moving, shipping, storage special tool requirements, minor adjustments to components, vehicle codes, accessories and safety. To teach the operation of revolving shovel and crane type equipment.
OET 2230—Repair and Rebuilding of Internal Combustion
Engines2 Credits
To provide the trainee detailed information on the repair and rebuilding of engines used in heavy construction equipment and in support equipment.
OET 2240—Crushing, Screening, and Washing Plants4 Credits
To provide the trainee detailed information on crushing, screening, and washing plants. To teach the controls, operation, and operator maintenance of aggregate crushing, screening, and washing plants.
OET 2310—Tools, Parts, and Housekeeping2 Credits
To provide the trainee detailed information on tools and shop equipment used in the repair of heavy equipment, on orders and reports required on the inventory control or parts and tools, on cleaning and inspecting parts, and on housekeeping and safety around repair shops.
OET 2320—Concrete Plants4 Credits
To provide the trainee detailed information on the controls and operation of concrete batch plants. To teach the controls, operation, and operator maintenance of concrete plants.
OET 2330—Material Hoisting and Handling Equipment
To provide the trainee detailed information on operation and use of material hoisting and handling equipment. To give specific details on nomenclature and description uses, servicing, PM, minor repairs, storage, shipping, special tool requirements, mino adjustments to components, accessories, and safety. To teach the operation of material hoisting and handling equipment.
OET 2410—Repair of Hydraulic Systems and Pneumatic
To provide the trainee detailed information on the repair of hydraulic systems and pneumatic equipment used on heavy duty construction equipment and suppor equipment.
OET 2420—Heavy Duty Component Repair4 Credits
To provide the trainee detailed information on the repair of all components of heavy construction equipment.
OET 2540—Apprenticeship Field Experiences IV
OET 2550—Apprenticeship Field Experiences V

## **PHILOSOPHY**

PHL 1010—Introduction to Philosophy
PHL 1110—Elementary Logic
PHL 1210—Elementary Ethics
PHL 1310—Symbolic Logic
PHL 2010—Introductions to Religions of the World
PHL 2020—Issues in Religious Studies
PHYSICAL EDUCATION
PED 1000, 1005—Adaptive Physical Education
PED 1010—Physical Conditioning
PED 1050—Slimnastics
PED 1110—Archery
PED 1210—Badminton
PED 1310—Basketball
PED 1320—Advanced Basketball
PED 1410—Beginning Bowling
PED 1420—Intermediate Bowling
PED 1510—Folk Dance

PED 1610—Beginning Golf
PED 1620—Intermediate Golf
PED 1710—Soccer
PED 1800—Social Dance
PED 1810—Modern Dance
PED 1910—Beginning Weight Training
PED 1920—Intermediate Weight Training
PED 2010—Beginning Ballet
PED 2020—Intermediate Bailet
PED 2050—Marksmanship and Firearms Safety
PED 2210—Softball
PED 2310—Swimming
PED 2410—Beginning Tennis
PED 2420—Intermediate Tennis
PED 2510—Stunts and Tumbling
PED 2520—Intermediate Stunts and Tumbling
PED 2610—Volleyball

PED 2710—Introduction to Physical Education
PED 2720—Teaching Individual and Dual Sports
PED 2730—Sports Officiating
PED 2810—Teaching Physical Education in the Elementary
Schools
PED 2820—Coaching of Baseball
PED 2850—Playground Leadership
PHYSICS
To receive credit for a physics course, the lecture section must be accompanied by a laboratory session during the same quarter.
NOTE: The physics sequences PHY 1110-20-30, PHY 2010-20-30 and PHY 2110-20-30 are normally offered only once a year, beginning in the fall quarter. Students planning to enroll in physics must therefore begin the sequence in the fall.
PHY 1110—Introductory Concepts in Physics I4 Credits
PHY 1120—Introductory Concepts in Physics II4 Credits
PHY 1130—Introductory Concepts in Physics III
PHY 2010—General Physics I
3 hours lecture 3 hours laboratory
PHY 2020—General Physics II
PHY 2030—General Physics III

PHY 2110—Physics I
PHY 2120—Physics II
PHY 2130—Physics III
PHY 2210—Modern Physics
2 hours lacture 2 hours laboratory

3 hours lecture—3 hours laboratory

# POLICE SCIENCE AND CRIMINOLOGY EDUCATION

PSI 1010—Introduction to Law Enforcement
Philosophical and historical background; agencies and respective jurisdictions; police ethics, public relations, and career orientation.
PST 1110—Police Science I
A study of legal concepts and procedures, including the laws of arrest and search warrant procedure, beginning with the issuance of legal process to ultimate court disposition, embracing informations, indictments, arraignments, preliminary hearings, bail, grand and petit juries, and the trial.

### POLITICAL SCIENCE

- **POL 1030—State and Local Government in the United States ........3 Credits**Forms of state and local government organizations. Interrelationships between state and local, state and federal, and local and federal governments.

### **PSYCHOLOGY**

PSY 2410—Child Psychology Psychological and physiological growth and development of the human organism, beginning with conception and continuing to adolescence.  PSY 2420—Adolescent Psychology PSY 2420—Adolescent Psychology PSY 2430—Psychological growth and development of the human organism from the age of twelve years through the middle or late twenties.  PSY 2430—Psychology and Everyday Life This elective course requires no background in psychology, It treats practical useful areas of psychology not treated in-depth in other courses. Two topics which might be covered—among others—are how psychology promotes happy homes and how psychology can be effectively applied.  PSY 2450—Human Development Seminar This course is designed to utilize the experience of students to achieve self-understanding, to study the effect of their relationships with others and to assist other members of the class to do the same. Values, interests, and attitudes will be explored in the small group setting.  PSY 2510—Social Psychology  PSY 2510—Social Psychology  SY 2510—Social Psychology  SY 2510—Social Psychology  SY 2510—Social Psychological Aspects of Management  A course to teach the relation of psychology, to the social environment. Topics studied include prejudice, attitude change, interpersonal attraction, aggression.  PSY 2610—Psychological Aspects of Management  A study of the application of psychological principles to business and other areas involving management. Topics to be covered will include supervision, communications, human relation skills, scientific and humanistic management, and group dynamics.  PSY 2710-2730—Independent Investigation in Psychology by qualified students under the direction and supervision of a faculty member. Especially designed to develop an interest in and to apply techniques of contemporary scientific research. Up to nine credit hours may be earned. (Prerequisite: Psy 1010, 1020 and consent of the faculty member)  RADIOLOGIC TECHNOLOGY  RDT 1000—Clinical Education II. In addition to the clinical e	100	HOANE STATE COMMONTH COLLEGE
Psychological and physiological growth and development of the human organism from the age of twelve years through the middle or late twenties.  PSY 2430—Psychology and Everyday Life	Psychological and physiological	ogical growth and development of the human organism,
This elective course requires no background in psychology. It treats practical useful areas of psychology not treated in-depth in other courses. Two topics which might be covered—among others—are how psychology promotes happy homes and how psychology can be effectively applied.  PSY 2450—Human Development Seminar	Psychological and physiological	gical growth and development of the human organism from
This course is designed to utilize the experience of students to achieve self-understanding, to study the effect of their relationships with others and to assist other members of the class to do the same. Values, interests, and attitudes will be explored in the small group setting.  PSY 2510—Social Psychology  A course to teach the relation of psychology, to the social environment. Topics studied include prejudice, attitude change, interpersonal attraction, aggression.  PSY 2610—Psychological Aspects of Management.  A study of the application of psychological principles to business and other areas involving management. Topics to be covered will include supervision, communications, human relation skills, scientific and humanistic management, and group dynamics.  PSY 2710-2730—Independent Investigation in Psychology.  3 Credits Independent library/experimental research in psychology by qualified students under the direction and supervision of a faculty member. Especially designed to develop an interest in and to apply techniques of contemporary scientific research. Up to nine credit hours may be earned. (Prerequisite: Psy 1010, 1020 and consent of the faculty member).  RADIOLOGIC TECHNOLOGY  RDT 1000—Clinical Education I.  A Credits  Practical application of skills taught in Radiologic Technology courses. Evaluation is based on quality and quantity of work, knowledge of techniques, learning ability, cooperation, initiative, dependability, professional conduct, and manual dexterity. In addition to the clinical experience of this course, two weeks of 40 hours clinical experience  RDT 1010—Clinical Education II.  A Credits  Continuation of Clinical Education II. In addition to the clinical experience of this course, two weeks of 40 hours clinical experience  RDT 1020—Clinical Education III.  8 hours clinical experience  RDT 1030—Clinical Education III. (Prerequisite: RDT 1010)  8 hours clinical experience  RDT 1030—Clinical Education III. (Prerequisite: RDT 1020)	This elective course require areas of psychology not trea covered—among others—a	es no background in psychology. It treats practical useful ated in-depth in other courses. Two topics which might be are how psychology promotes happy homes and how
A course to teach the relation of psychology, to the social environment. Topics studied include prejudice, attitude change, interpersonal attraction, aggression.  PSY 2610—Psychological Aspects of Management	This course is designed to understanding, to study the members of the class to do the	to utilize the experience of students to achieve self- effect of their relationships with others and to assist other
A study of the application of psychological principles to business and other areas involving management. Topics to be covered will include supervision, communications, human relation skills, scientific and humanistic management, and group dynamics.  PSY 2710-2730—Independent Investigation in Psychology	A course to teach the relation	of psychology, to the social environment. Topics studied
Independent library/experimental research in psychology by qualified students under the direction and supervision of a faculty member. Especially designed to develop an interest in and to apply techniques of contemporary scientific research. Up to nine credit hours may be earned. (Prerequisite: Psy 1010, 1020 and consent of the faculty member).  RADIOLOGIC TECHNOLOGY  RDT 1000—Clinical Education I	A study of the application of involving management. Top tions, human relation skills	of psychological principles to business and other areas sics to be covered will include supervision, communica-
RDT 1000—Clinical Education I	Independent library/experim the direction and supervision interest in and to apply tecl credit hours may be earned.	nental research in psychology by qualified students under n of a faculty member. Especially designed to develop an hniques of contemporary scientific research. Up to nine
Practical application of skills taught in Radiologic Technology courses. Evaluation is based on quality and quantity of work, knowledge of techniques, learning ability, cooperation, initiative, dependability, professional conduct, and manual dexterity. In addition to the clinical experience of this course, two weeks of 40 hours clinical experience during the intersession are required. (Prerequisite: Admission to Radiologic Technology Program)  8 hours clinical experience  RDT 1010—Clinical Education II	RADIOL	OGIC TECHNOLOGY
Continuation of Clinical Education I. In addition to the clinical experience of this course, two weeks of 40 hours clinical experience during the intersession are required. (Prerequisite: RDT 1000)  8 hours clinical experience  RDT 1020—Clinical Education III	Practical application of skill based on quality and quan cooperation, initiative, depe addition to the clinical expexperience during the interest Radiologic Technology Programmers.	s taught in Radiologic Technology courses. Evaluation is atity of work, knowledge of techniques, learning ability, endability, professional conduct, and manual dexterity. In perience of this course, two weeks of 40 hours clinical tersession are required. (Prerequisite: Admission to gram)  8 hours clinical experience
RDT 1020—Clinical Education III	Continuation of Clinical Ed course, two weeks of 40 hour	ucation I. In addition to the clinical experience of this sclinical experience during the intersession are required.
Continuation of Clinical Education III. (Prerequisite: RDT 1020)	Continuation of Clinical Edu	on III
	Continuation of Clinical Edu	ucation III. (Prerequisite: RDT 1020)

RDT 1110—Introduction to Radiologic Technology
RDT 1210—Radiographic Positioning I
positioning of the chest, abdomen, hands, wrist, forearm, elbow, and humerus. Use is made of audio-visuals, radiographs, skeleton model, and laboratory experiences. (Prerequisite: RDT 1110)
1 hour lecture—8 hours clinical experience
RDT 1220—Radiographic Positioning I
1 hour lecture—3 hours laboratory—4 hours clinical experience
RDT 1230—Radiographic Positioning III
RDT 1310—Radiographic Principles I
This course studies X-ray film, mixing solutions, development process, rinsing process, fixing process, drying process, automatic processing, production and properties of X-rays, radiographic terms, and silver image formation. (Corequisite: RDT 1000)
3 hours lecture—3 hours laboratory
RDT 1320—Radiographic Principles II
RDT 1330—Radiographic Principles III
Study of density factors, geometric factors, and intensifying screens. Students are introduced to different types of technique charts and taught how to formulate a technique chart. (Prerequisite: RDT 1320)  3 hours lecture—4 hours clinical experience
RDT 1410—Terminology
Introduction to the word building system through analysis of the elements of medical terms and combining forms. Spelling and oral activities are included. Emphasis is directed to medical terms pertaining to radiology. (Corequisite: RDT 1000)
RDT 1510—Radiographic Film Evaluation I
RDT 1520—Radiographic Film Evaluation II
RDT 1610—Radiation Physics I

RDT 2040—Clinical Education V
28 hours clinical experience
RDT 2050—Clinical Education VI
32 hours clinical experience
RDT 2060—Clinical Education VII
RDT 2070—Clinical Education VIII
RDT 2210—Radiographic Positioning IV
RDT 2610—Radiation Physics II
Continuation of Radiation Physics I. New subject areas are electromagnetism, rectification, production and properties of X-ray, X-ray tubes, X-ray circuits and equipment. (Prerequisite: RDT 1610)
RDT 2620—Radiation Physics III
This course deals primarily with radiation biology. The student is introduced to the effects of and response to irradiation. Radiation syndromes and radiation oncology are included. (Prerequisite: RDT 2610)
RDT 2710—Special Examinations and Equipment I2 Credits
Introduction to specific types of recording media which include video tape, cine radiography, strip-film cameras, and rapid film changes. Introduction to special techniques such as duplication, subtraction, polaroid thermography ultrasound, xeroradiography, and electron radiography. (Prerequisite: RDT 1330)
RDT 2720—Special Examinations and Equipment II
RDT 2810—Radiation Protection
A study of the basic interaction of radiation with matter, biological effects of ionizing radiation, patient and personnels protection, MPD, and personnel monitoring. (Prerequisite: RDT 2210)
RDT 2910—Radiographic Pathology2 Credits
This course relates disease processes particularly to radiology. All anatomical systems of the body are included. (Prerequisite: RDT 2210)
RDT 2915—Radiologic Technology Seminar I
RDT 2925—Radiologic Technology Seminar II

### **READING**

REA 0100—Basic Reading
<b>REA 1010—Developmental Reading and Study Skills I</b>
REA 1020—Developmental Reading and Study Skills II
REA 1030—College Reading
REA 1040—Speed Reading
RECREATION
REC 1010—Introduction to Recreation
REC 1020—Social Recreation
REC 1030—Outdoor Education
REC 1110—Team Sports

organization, administration, and promotion of sports rather than mastery of perfor-

phasis is on constructing, administering, promoting, and teaching crafts.

mance skills.

A study of essential elements and basic principles involved in the organizations, supervision, promotion, and evaluation of various types of recreation programs. Emphasis is on organized programs and services.
REC 2310—Water Sports
REC 2410—Field Work
<b>REC 2510—Introduction to Marine Management</b>
REC 2520—Small Craft Operations
REC 2610—Camp Crafts
REC 2710—Park Administration
REC 2720—Facilities Planning and Maintenance
REC 2810—Camping and Camp Leadership
REC 2870—Recreation Leadership
RESPIRATORY THERAPY
RTT 1010—Introduction to Respiratory Therapy

REC 2010—Organization and Administration in Recreation ...........3 Credits

RTT 1110—Oxygen Therapy6 Credits
A foundation course in the administration of oxygen and other medical gases. Areas covered include manufacture, transportations, storage systems, safety regulations standards of piping identification systems, pressure reducing valve, flowmeters, and techniques used in the administration of oxygen, carbon dioxide, and helium-oxyger mixture. Emphasis will be placed on equipment function. (Prerequisites: RTT 1010 CHE 1010, MAT 1010)
RTT 1210—Pathology and Physical Diagnosis
RTT 1310—Intermittent Positive Pressure Breathing and Aerosol Therapy 8 Credits
A continuation of RTT 1110 with additions of principles, techniques and equipmen used in the administration of intermittent positive pressure breathing and aeroso therapy. Emphasis will be placed on administrative techniques and evaluation of therapeutic effects. (Corequisite: RTT 1410) (Prerequisite: RTT 1110)
RTT 1410—Respiratory Pharmacology2 Credits
This course will present a general description of pharmacological agents encountered in Respiratory Therapy including the effects on respiration of drugs such as anesthetic agents and narcotics. Special emphasis will be placed on dosages, methods o administration, actions and side effects of drugs administered by therapists (Corequisite: RTT 1310)
RTT 1510—Airway Management and Cardiopulmonary Resuscitation8 Credits
Intensive coverage of theory and application of airway management and cardiopulmo nary resuscitation techniques. Types of airway obstruction and airway maintenance procedures will be covered including suctioning and intubation. Emergency artificial ventilation techniques and external cardiac compression will also be included (Prerequisite: RTT 1210, RTT 2610)
RTT 2610—Equipment and Sterilization
RTT 2650—Mechanical Ventilation I
Introduction to theory and concepts of respiratory care with emphasis on continuous ventilation. Topics in this course include indications, physiological considerations ventilatory patterns, management techniques, weaning procedures, types of ventilatory support and functional characteristics of ventilators. (Prerequisite: RTT 1510, PHY 1110)
RTT 2660—Mechanical Ventilation II
RTT 2710—Pulmonary Function I
This course will consist of in-depth exposure to pulmonary function evaluation procedures. The student will be taught principles and techniques of blood gas analysis, lung volume and diffusion capacity determinations. Much emphasis will be placed on performance of technical procedures, including arterial puncture, calcula tion of pulmonary function data and application of laboratory data to clinical situations (Prerequisite or CorerequisiteG RTT 2650)
RTT 2720—Pulmonary Function II

RTT 2810—Clinical Education I
SAVINGS ASSOCIATION
SAV 1010—Introduction to Savings Association
SAV 1110—Savings Accounts
SAV 1120—Savings Accounts Administration
SAV 2110—Savings Association Operations
SECRETARIAL SCIENCE
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SSC 1130—Shorthand III
SSC 1210—Machine Transcription
SSC 2010—Typing IV
SSC 2110—Shorthand Transcription
SSC 2210—Office Practice
SSC 2810—Records Management
SOCIAL SCIENCE
SS 1110-1190—Social Science Seminar
SOCIOLOGY
SOC 2010—Introduction to Sociology
SOC 2020—Social Institutions
SOC 2030—Social Problems
SOC 2110—Introduction to Cultural Anthropology
An introduction to the principles, concepts, methods, and scope of anthropology. Emphasis is placed on the nature of culture and society, cultural adaptation, and differences and similiarities among the cultural components of social organization, economic organization, political organization, language, ideology, technology, and

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SOC 2120—Introduction to Prehistory and Archaeology
An introductory survey of human origins and prehistoric cultures. Emphasis is placed
on the general principles, theoretical orientations, and methods of archaeology.

#### **SPANISH**

SPA 1010—Beginning Spanish I	3 Credits
(No prerequisite)	

## SPEECH

NOANE STATE COMMONITY COLLEGE			
SPE 2450—Debate			
SPE 2460—Speech Practicum I			
SPE 2470—Speech Practicum II			
SPE 2480—Speech Practicum III			
SPE 2710—Oral Interpretation			
SPE 2720—Fundamentals of Acting			
SPE 2730—Introduction to Theatre			
SPE 2740—Fundamentals of Theatrical Production			
SPE 2750—Theatre Practicum I			
SPE 2760—Theatre Practicum II			
SPE 2770—Theatre Practicum III			
TECHNOLOGY			
TEC 1010—Man and Technology I			
TEC 1020—Man and Technology II			

#### **Definition of Terms**

Admission—Acceptance of a candidate for enrollment.

**Admission to Advanced Standing**—Granted on the basis of credits earned in another college or on the basis of demonstrated educational attainment beyond the minimum required for admission.

**Advisor, Advisee**—The advisor, or counselor, is the instructor assigned to help the student with his/her academic problems. The student is called the advisee.

**Average, Grade Point**—A measure of average scholastic success obtained by dividing the total number of grade points earned by the total number of hours of course work attempted.

**Calendar**—The division of the full calendar year. The quarter calendar is composed of three regular terms per year with about ten weeks per term of instruction excluding final examinations in a school year of about the same over-all length as under a semester system, running from September through early June, with the fourth quarter as a summer session.

**Classification**—Student status in respect to progress toward the completion of his/her curriculum based upon the number of hours or courses to his/her credit at the time of registration and scholarship achievement required for advancement to another class.

**Course**—Organized subject matter in which instruction is offered within a given period of time and for which credit toward graduation or certification is usually given.

**Course Number**—Identifies class level and distinguishes it from other courses in a given area of study.

Course Corequisite—When two or more classes are required simultaneously.

**Course Prerequisite—**A preliminary requirement that must be met before a certain course may be taken.

Credit Hours (Quarter Hour)—Defined by the number of hours per week in class and the number of weeks in the quarter. One quarter hour is usually assigned to a class that meets fifty minutes a week during a quarter or laboratory type instruction that meets two to four hours a week for a quarter or a combination of class and laboratory meetings depending upon the type of instruction and material covered. Therefore, a three-hour non-laboratory course would in general meet three hours each week during the quarter; and the credit earned would be THREE QUARTER HOURS. A total of 99 quarter hours is the minimum required for graduation.

**Curriculum—**The whole body of courses offered for study.

**Dean's List**—Common designation for the published list of students who have made an honor average for the term.

**Degree (Earned)**—Title bestowed as official recognition for the completion of a curriculum.

**Degree, Associate**—Granted upon completion of an education program of less than four years of college work, generally for the completion of the curriculum.

Degree Student—One who has fulfilled the admissions requirements and who is pursuing an Associate Degree program, referred to by some colleges as a regular student.

**Department**—An area which offers instruction in a particular branch of knowledge.

**Developmental Studies**—A program of studies in various areas designed to give the student background prerequisite to college level studies.

**Dismissal (Academic)**—Involuntary separation of a student from his/her college because he/she has not met the academic requirements.

**Dismissal (Disciplinary)**—Involuntary separation of a student from his/her college as a result of action taken because of misconduct.

**Division**—A group of related departments, such as the Humanities Division.

Elective—A subject or course which the student may choose as distinguished from courses which are required.

Financial Aid, Student—Assistance to students in the form of "gift" aid (scholarships and grants) and "self-help" aid (loans and part-time employment). It is usually based on financial need and is used for expenses related to attending college (fees, books, transportation, room and board, and miscellaneous).

Full-Time Student—One who is carrying at least seventy-five percent of the normal student hour load. Twelve quarter hours is commonly accepted as a minimum load for a full-time student. Grant-in-Aid—A gift of money made without regard to academic excellence to a student

who possesses certain talent sought or valued by an institution, such as "Athletic Grant-in-Aid," "Music Grant-in-Aid," etc., usually, although not always, made without regard to financial need. Major—The student's primary field of interest. The field of concentration may fall within a

single department of instruction or may overlap several departments. In the latter case, the major is described as a division major.

Minor—The student's field of secondary emphasis.

Part-Time Student—One who is carrying an academic schedule of less than 12 hours.

**Probation**—Probation status may be for academic or for disciplinary reasons. Academic probation is the result of unsatisfactory scholarship. It is not a penalty but a warning and an opportunity to improve. Academic probation usually involves a compulsory reduction of academic load and interviews for diagnosis of difficulties and for checking on recovery. Sometimes it brings a required restriction of extracurricular activities and general surveillance. Usually the student is required to make regular specified improvement in his/her record in order to avoid disqualification. Disciplinary probation is a middle status between good standing or dismissal. The student remains enrolled but

under stated conditions according to the college policies. Disciplinary probation covers

a stated trial period during which it is determined whether the student is returned to good standing, having met the stated requirements, or dismissed or suspended at the end of the period for failing to meet the stated requirements. Quarter—A fourth of a school year. Three quarters constitute the academic year.

Reinstatement—The act of readmitting a student after he/she has been dismissed.

Section Number-Refers to the specific class of the course for which the student is enrolled.

Special Student—One who is not pursuing an Associate Degree program. Special students either do not fulfill minimum requirements for entrance as degree students or have been permitted to audit a limited or special selection of degree credit courses without regard to degree requirements.

Suspension—Involuntary separation of the student from the College is implied by the term suspension. It may not be a permanent separation but neither is a definite time set when return is expected.

Transfer Student—A student who has withdrawn from one college and is admitted to

Transient Student—A student in good standing in any recognized college who is taking work in another college to transfer back to his/her college.

Withdrawal—A release from enrollment. A student notifies the appropriate authorities, thereby making it an Official Withdrawal. When the student merely stops attending classes without notifying the authorities, failing marks are recorded and charged against him/her. This is termed Unofficial Withdrawal.

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