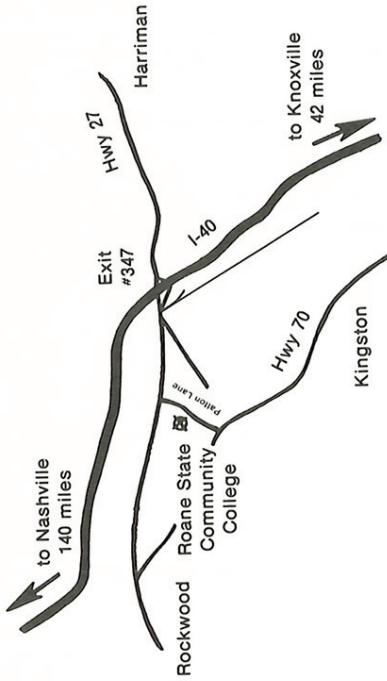


Roane State Community College Catalog 1985-1987



ROANE STATE COMMUNITY COLLEGE

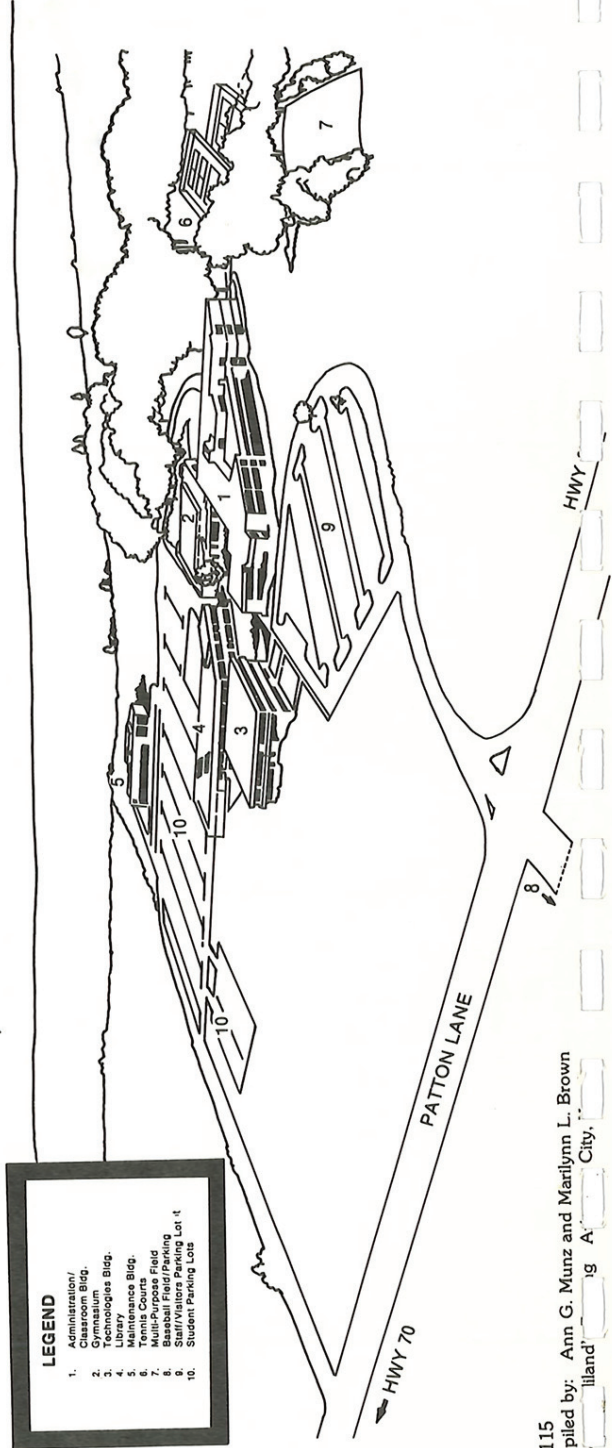


DIRECTIONS FROM I-40

- Exit I-40 at 'Harriman-Rockwood', exit #347.
- Turn left on U.S. Highway 27. (west to Rockwood)
- Two miles from the interstate, make a left hand turn on Patton Lane.
- Follow the RSCC signs.

LEGEND

1. Administration/ Classroom Bldg.
2. Gymnasium
3. Biological Bldg.
4. Library
5. Maintenance Bldg.
6. Tennis Courts
7. Field
8. Baseball Field/Parking
9. Staff/Visitors Parking Lot
10. Student Parking Lots

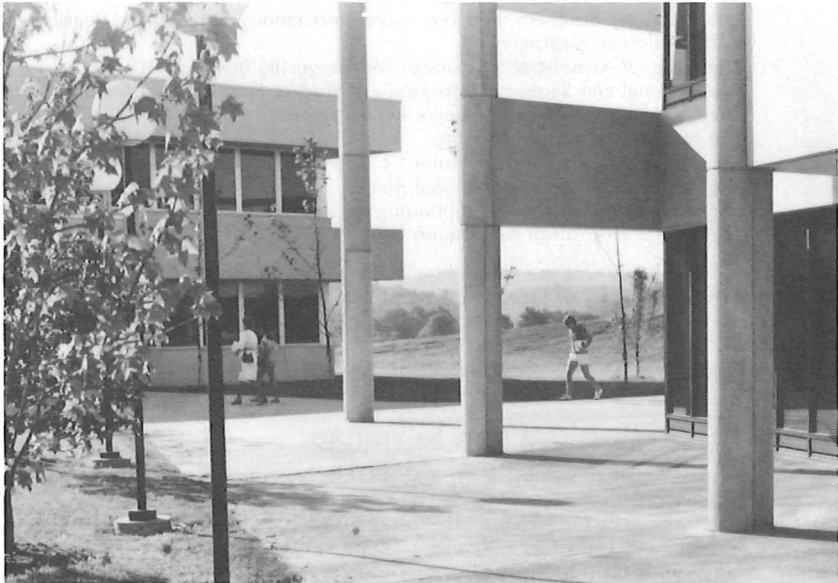


Roane State Community College

General Catalog * 1985-1987

Vol. 13, 1985

Harriman, TN 37748



ROANE STATE COMMUNITY COLLEGE

- is an institution of higher education under the governance of the Board of Regents of the State University and Community College System of Tennessee.
- is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools as a Level I (Associate Degree), General Postsecondary Institution.
- is an institutional member of a number of national and regional organizations, including the following:

The American Association of Community and Junior Colleges
 The American, Southern, and Tennessee Associations of Collegiate Registrars and Admissions Officers
 The National Association of College and University Business Officers
 The National and Southern Association of Student Financial Aid Administrators
 The National Council for Resource Development
 The National League for Nursing
 The National and Tennessee Junior College Athletic Associations
 The Southern Regional Educational Board
 The Tennessee Alliance for Continuing Higher Education
 The Tennessee College Association

Roane State Community College offers employment and its programs of instruction to qualified persons regardless of race, color, creed, sex, national origin, or handicap and is committed to the education of a non-racially identifiable student body.

Telephone: (615) 354-3000 - Harriman Campus
 (615) 483-0816 - Oak Ridge Campus

A NOTE TO VISITORS

The college administration, faculty, staff, and students welcome visitors to the campus. The administrative offices are open Monday through Friday, 8:00 a.m. until 4:30 p.m. The Summer Quarter schedule for administrative offices is Monday through Wednesday, 7:30 a.m. to 6:00 p.m., and Thursday, 7:30 a.m. to 5:30 p.m. The Office of Admissions and Records (Harriman) is open Monday through Thursday from 8:00 a.m. to 6:30 p.m. and on Friday from 8:00 a.m. to 4:30 p.m. The Office of Admissions and Records (Oak Ridge) is open Monday through Thursday from 10:00 a.m. to 6:30 p.m. and on Friday from 8:00 a.m. to 4:30 p.m.

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NOTICE

Any changes becoming effective for the 1986-1987 academic year will be published in an update which will supersede this catalog. Each student is responsible for securing a copy of the 1986-1987 update from the Office of Admissions and Records during the latter part of Spring Quarter 1986. Policies or programs contained in this catalog and not changed in the update will remain in effect during the 1986-87 academic year. ALL FEES AND POLICIES ARE SUBJECT TO CHANGE BY DIRECTION OF THE BOARD OF REGENTS OF THE STATE UNIVERSITY AND COMMUNITY COLLEGE SYSTEM OF TENNESSEE AT ANY TIME.

ACADEMIC CALENDAR 1985-86

This calendar is subject to change due to emergencies or causes beyond the control of the college.

FALL QUARTER 1985

September 9-13	Early Registration
September 16	Oak Ridge Registration
September 17	Harriman Campus Registration
September 19	Classes Begin
September 26	Last Day to Add Classes or Register Late
October 31	Last Day to Change from Audit to Credit OR Credit to Audit
October 31	Last Day to Withdraw from Classes
November 27	Classes End
November 28, 29	Thanksgiving Holidays
December 6	Grades Due in Admissions and Records Office
December 23, 24, 25, 26	Christmas Holidays

WINTER QUARTER 1986

November 17-20	Early Registration
January 1	New Year's Day Holiday
January 2	Oak Ridge Registration
January 3	Harriman Campus Registration
January 6	Classes Begin
January 13	Last Day to Add Classes or Register Late
January 20	Martin Luther King Holiday
February 17	Last Day to Change from Audit to Credit OR Credit to Audit
February 17	Last Day to Withdraw from Classes
March 17	Classes End
March 18-21	Spring Break or Make Up Days
March 19	Grades Due in Admissions and Records Office

SPRING QUARTER 1986

March 3-6	Early Registration
March 24	Oak Ridge Registration
March 25	Harriman Campus Registration
March 27	Classes Begin
April 3	Last Day to Add Classes or Register Late
May 15	Last Day to Change from Audit to Credit OR Credit to Audit
May 15	Last Day to Withdraw from Classes
June 4	Classes End
June 6	Grades Due in Admissions and Records Office
June 7	Commencement ¹

SUMMER QUARTER 1986²

Full Term

May 19-22	Early Registration
June 9	Oak Ridge Registration
June 10	Harriman Campus Registration

¹Potential graduates should apply for graduation early in the quarter preceding the quarter of intended graduation.

²See pp. 47, 55 for registration procedure and fees for Summer Quarter.

June 12 Classes Begin
 June 16 Last Day to Add Classes or Register Late
 July 4 Independence Day Holiday
 July 14 Last Day to Change from Audit to Credit
 OR Credit to Audit
 July 14 Last Day to Withdraw from Classes
 August 20 Classes End
 August 25 Grades Due in Admissions and Records Office

First Session

May 19-22 Early Registration
 June 9 Oak Ridge Registration
 June 10 Harriman Campus Registration
 June 12 Classes Begin
 June 17 Last Day to Add Classes or Register Late
 July 3 Last Day to Change from Audit to Credit
 OR Credit to Audit
 July 3 Last Day to Withdraw from Classes
 July 4 Independence Day Holiday
 July 16 Classes End

Second Session

May 19-22 Early Registration
 June 9 Oak Ridge Registration
 June 10 Harriman Campus Registration
 July 17 Classes Begin
 July 22 Last Day to Add Classes or Register Late
 August 6 Last Day to Change from Audit to Credit
 OR Credit to Audit
 August 6 Last Day to Withdraw from Classes
 August 20 Classes End
 August 25 Grades Due in Admissions and Records Office

FALL QUARTER 1986

September 8-12 Early Registration
 September 15 Oak Ridge Registration
 September 16 Harriman Campus Registration
 September 18 Classes Begin
 September 25 Last Day to Add Classes or Register Late
 October 30 Last Day to Change from Audit to Credit
 OR Credit to Audit
 October 30 Last Day to Withdraw from Classes
 November 26 Classes End
 November 27-28 Thanksgiving Day Holidays
 December 5 Grades Due in Admissions and Records Office

WINTER QUARTER 1987

November 17-20 Early Registration
 December 22, 23, 24, 25 Christmas Holidays
 December 29 Oak Ridge Registration
 December 30 Harriman Campus Registration
 January 1 New Year's Day Holiday
 January 5 Classes Begin
 January 12 Last Day to Add Classes or Register Late
 January 19 Martin Luther King Birthday Holiday
 February 13 Last Day to Change from Audit to Credit
 OR Credit to Audit
 February 13 Last Day to Withdraw from Classes
 March 16 Classes End
 March 17-20 Spring Break or Make Up Days
 March 18 Grades Due in Admissions and Records Office

SPRING QUARTER 1987

March 2-5	.....	Early Registration
March 23	.....	Oak Ridge Registration
March 24	.....	Harriman Campus Registration
March 26	.....	Classes Begin
April 2	.....	Last Day to Add Classes or Register Late
May 7	.....	Last Day to Change from Audit to Credit OR Credit to Audit
May 7	.....	Last Day to Withdraw from Classes
June 3	.....	Classes End
June 4	.....	Grades Due in Admissions and Records Office
June 6	.....	Commencement ¹

SUMMER QUARTER 1987²

Full Term

May 18-21	.....	Early Registration
June 8	.....	Oak Ridge Registration
June 9	.....	Harriman Campus Registration
June 11	.....	Classes Begin
June 16	.....	Last Day to Add Classes or Register Late
July 4	.....	Independence Day Holiday
July 15	.....	Last Day to Change from Audit to Credit OR Credit to Audit
July 15	.....	Last Day to Withdraw from Classes
August 19	.....	Classes End
August 20	.....	Grades Due in Admissions and Records Office

First Session

May 18-21	.....	Early Registration
June 8	.....	Oak Ridge Registration
June 9	.....	Harriman Campus Registration
June 11	.....	Classes Begin
June 16	.....	Last Day to Add Classes or Register Late
June 30	.....	Last Day to Change from Audit to Credit OR Credit to Audit
June 30	.....	Last Day to Withdraw from Classes
July 4	.....	Independence Day Holiday
July 15	.....	Classes End

Second Session

May 18-21	.....	Early Registration
June 8	.....	Oak Ridge Registration
June 9	.....	Harriman Campus Registration
July 16	.....	Classes Begin
July 21	.....	Last Day to Add Classes or Register Late
August 5	.....	Last Day to Change from Audit to Credit OR Credit to Audit
August 5	.....	Last Day to Withdraw from Classes
August 19	.....	Classes End
August 20	.....	Grades Due in Admissions and Records Office

¹Potential graduates should apply for graduation early in the quarter preceding the quarter of intended graduation.

²See pp. 47, 55 for registration procedures and fees for Summer Quarter.

**BOARD OF REGENTS OF THE STATE
UNIVERSITY AND COMMUNITY COLLEGE
SYSTEM OF TENNESSEE**

STATUTORY MEMBERS

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

Dr. Roy S. Nicks, *Chancellor*

The Honorable Dr. Robert L. McElrath
The Commissioner of Education, *Ex-officio*

The Honorable Mr. William H. Walker, III
The Commissioner of Agriculture, *Ex-officio*

Dr. Arliss L. Roaden, *Executive Director*
Tennessee Higher Education Commission, *Ex-officio*

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Mr. James H. Jones, Jr.	Mt. Pleasant
Mr. Richard A. Lewis	Nashville
Mr. C. Scott Mayfield	Athens
Mr. J. Howard Warf	Hohenwald
Mr. David White	Knoxville

Officers

<i>The Honorable Lamar Alexander</i>	Chairman
<i>Mr. C. Scott Mayfield</i>	Vice-Chairman
<i>Ms. Susan C. Short</i>	Secretary

ROANE STATE COMMUNITY COLLEGE ADMINISTRATION, FACULTY, AND PROFESSIONAL STAFF

ADMINISTRATIVE COUNCIL

<i>President</i>	Cuylar A. Dunbar
<i>Dean of the College</i>	Harold L. Underwood
<i>Dean of Administrative Affairs</i>	Fred H. Martin
<i>Associate Dean of Student Activities</i>	Donald L. Bratcher
<i>Assistant Dean of Educational Services</i>	Louise R. Greene
<i>Executive Director of RSCC Foundation</i>	J. Alton Johnson
<i>Administrator, Oak Ridge Campus</i>	James L. Nave
<i>Business Manager</i>	William S. Fuqua, III
<i>Administrative Assistant to the President</i>	Ann G. Munz

ADMINISTRATION

<i>Associate Dean of Arts and Sciences</i>	Anne P. Minter
<i>Associate Dean of Career Education (Acting)</i>	Bob F. Thomas
<i>Assistant Dean of Continuing Education</i>	Paul E. Goldberg
<i>Director of Counseling Services</i>	Donald L. Bratcher
<i>Director of Academic Special Projects</i>	Jerry Hardin
<i>Director of Admissions and Records</i>	Patricia C. Bailey
<i>Director of Athletics</i>	Carroll H. Smith
<i>Director of Computer Services</i>	Gerald N. Nelson
<i>Director of Honors Program</i>	Larry Bouldin
<i>Director of Information Services</i>	Claire Eldridge-Karr
<i>Director of Library Services</i>	John R. Needham
<i>Director of Physical Plant</i>	Kinch M. York.
<i>Director of Scholarships, Financial Aid, Veterans Affairs and Cooperative Education</i>	Robert H. Creswell
<i>Director of Jobs Training Partnership Act Project (JTPA)</i>	Bobby Renfro
<i>Coordinator of Community Relations</i>	Mary Sue Eiselstein
<i>Coordinator of Special Projects, Office of the President</i>	Ann G. Munz
<i>Officer for Personnel Services</i>	Mildred R. Millican
<i>Senior Accountant</i>	J. Russell Limburg
<i>Specialist for Department of Energy Education</i>	Anne Allen

ACADEMIC DEPARTMENT HEADS

<i>Allied Health</i>	Linda Monroe
<i>Business and Economics</i>	Bob F. Thomas
<i>Education/Developmental Studies</i>	Melvin A. Kirkpatrick
<i>Engineering Technology</i>	David G. Sweet
<i>Health, Physical Education and Recreation</i>	James L. Davis
<i>Humanities</i>	Nancy M. Fisher
<i>Mathematics and Science</i>	Anne P. Minter
<i>Nursing</i>	Elaine B. Johnson
<i>Social Sciences</i>	James A. Doyle

FACULTY, ADMINISTRATION, AND PROFESSIONAL STAFF

- ABUNGU, CORNELIO O. *Assistant Professor of Mathematics*
 B.A., Jarvis Christian College—Mathematics
 M.S., East Texas State University—Mathematics
 Ed.D., East Texas State University—Educational Administration (1975)
- ALLEN, ANNE *Energy Education Specialist*
 B.A., University of Tennessee—Liberal Arts
 M.S., University of Tennessee—Education (1980)
- ANDREWS, REBECCA P. *Associate Professor of Business*
 B.S., Tennessee Technological University—Accounting
 M.S., Oklahoma State University—Accounting (1967)
 C.P.A., State of Tennessee
- ATKINSON, EDWARD R., JR. *Associate Professor of Psychology*
 B.A., Rhodes College—English
 M.A., George Peabody College—English
 M.A., Austin Peay State University—Psychology (1970)
- BAILEY, LEONARD C. *Associate Professor of Business*
 B.S., University of Tennessee—Personnel Management
 M.B.A., Pace University—Labor-Management Relations (1976)
- BAILEY, PATRICIA GIBSON *Director of Admissions/Records*
 A.S., Roane State Community College—General
 B.A., University of Tennessee—Biology
 M.S., University of Tennessee—Social Work (1979)
- BARNES, DELORISE C. *Associate Professor of Business*
 B.S., Livingston College—Business Education
 M.S., University of Tennessee—Office Administration
 Ed.D., University of Tennessee—Vocational-Technical Education (1978)
- BARNES, RICHARD VERLE *Associate Professor of English*
 A.B.J., University of Georgia—Journalism
 M.A., University of Georgia—Journalism and Communication
 Ed.D., University of Florida—Curriculum and Instruction (1977)
- BAYNE, STUART W. *Assistant Professor of Fire Science Technology*
 B.A., Lehigh University—Psychology
 M.A., Fairleigh Dickinson University—Human Development
 B.S., Jersey City College—Fire Safety Administration (1979)
- BOULDIN, ANNE P. *Coordinator of Graphic Arts,*
Assistant Professor of Art
 B.F.A., University of Tennessee
 M.S., University of Tennessee—Art Education (1977)
- BOULDIN, C. LARRY *Associate Professor of Mathematics*
 B.A., David Lipscomb College—Mathematics
 M.S., Middle Tennessee State University—Mathematics
 Ed.D., University of Tennessee—Curriculum and Instruction (1982)
- BRATCHER, DONALD L. *Associate Dean of Student Affairs*
 A.A., Hiwassee College—General Studies
 B.S., Tennessee Wesleyan College—Psychology
 M.S., University of Tennessee—Educational Psychology/Counseling
 Ed.S., University of Tennessee—Educational Psychology/Counseling
 Ed.D., University of Tennessee—Educational Psychology and Guidance (1976)
- BROWN, JAMES E. *Associate Professor of Art*
 B.A., Athens College—Art
 M.A., University of Alabama—Art (1966)

- BRUNTON, REBECCA I. *Media Specialist*
 A.S., Roane State Community College—General
 B.S., Middle Tennessee State University—History
 M.S., University of Tennessee—Library Science (1981)
- BRYANT, GAY D. *Associate Professor of Business*
 B.S., West Georgia College—Business Education
 M.S., University of Tennessee—Business Education (1971)
- BYRNE, JANET O. *Executive Director of Community Child Center*
Associate Professor of Education
 B.S., Tennessee Technological University—Home Economics Education
 M.S., University of Tennessee—Child and Family Studies (1977)
- BYRNE, THOMAS E. *Associate Professor of Biology*
 B.S., Tennessee Technological University—Biology
 M.S., Tennessee Technological University—Biology
 Ph.D., University of Tennessee—Botany (1984)
 Certified, National Registry of Microbiologists
- CASEY, JANE NICHOLS *Assistant Professor of Medical Laboratory Technology*
 B.S., University of Tennessee—Medical Technology (1974)
- CHAPMAN, GEORGE T. *Assistant Professor of Physics*
 B.S., Birmingham Southern University—Physics (1950)
- CHARTON, FRANK L. *Associate Professor of Physical Science*
 B.A., George Peabody College—Social Studies
 M.A., Michigan State University—Geography
 Ph.D., Michigan State University—Geography (1972)
- CHRESTMAN, SHERRY H. *Social Worker of Community Child Center*
 B.S., University of Southern Mississippi—Social Work (1977)
- CHRISTIAN, ALEETA P. *Assistant Professor of Developmental Studies*
 A.B., Birmingham-Southern College—Religion and Philosophy, Spanish
 M.S., University of Tennessee—Adult Education (1977)
- CHRISTIAN, FLOYD L. *Associate Professor of Mathematics*
 A.B., Birmingham Southern University—Mathematics
 M.A., Samford University—Mathematics
 Ph.D., University of Mississippi—Mathematics (1975)
- CLARK, DON *Maintenance Supervisor*
- COOPER, LANCE *Instructor of Speech*
 B.S., University of Tennessee—Chemical Engineering
 M.A., University of Tennessee—Speech and Theatre (1979)
- CRESWELL, ROBERT H. *Director of Scholarships, Financial Aid,*
Veterans Affairs, Cooperative Education
 B.S., Tennessee Technological University—Secondary Education
 M.A., Tennessee Technological University—Administration and Supervision (1978)
- CROWE, MARGARET W. *Instructor of Nursing*
 Diploma, Riverside Hospital School of Nursing
 B.S., University of Tennessee—Education
 M.S., University of Tennessee—Child and Family Studies (1979)
- DAVIS, JAMES L. *Assistant Professor of Physical Education,*
Women's Basketball Coach
 B.S., Tennessee Wesleyan College—Health and Physical Education
 M.A., Tennessee Technological University—Administration and Supervision (1975)
- DAVIS, PATRICIA H. *Program Director of Community Child Center*
 B.S., University of Tennessee—Early Childhood Education (1977)
- DIXON, LANA S. *Assistant Librarian*
 B.A., Tennessee Technological University—English
 M.S., University of Tennessee—Library Science (1978)

- DOYLE, JAMES A. *Department Head of Social Sciences,
Associate Professor of Psychology*
B.A., Aquinas College—Psychology
M.A., Xavier University—Clinical Psychology
Ph.D., University of Regina—Social-Clinical Psychology (1973)
- DUNBAR, CUYLER A. *President*
B.S., University of Tennessee—Agricultural Education
M.A., Austin Peay State University—Educational Administration/Counseling
Ed.D., Auburn University—Educational Administration (1970)
- DUNCAN, LEA A. *Coordinator of Health Services*
A.S., Roane State Community College—General
B.S.N., University of Tennessee—Nursing (1977)
- DUNCAN, LOUISE *Instructor of Nursing*
B.S., University of Kentucky—Nursing
M.S.N., University of Tennessee (1984)
- EDWARDS, LINDA M. *Associate Professor of Biology*
B.S., University of Tennessee—Botany
M.S., University of Tennessee—Botany (1967)
- EDWARDS, MAX *Program Monitor/Contract Manager of JTPA*
B.S., East Tennessee State University
M.S., George Peabody College—Educational Administration and Supervision (1957)
- EISELSTEIN, MARY SUE *Coordinator of Community Relations*
B.A., English, Middle Tennessee State University
M.A., English, Middle Tennessee State University (1977)
- ELDRIDGE-KARR, CLAIRE *Director of Information Services*
A.B., Connecticut College for Women—History
M.A.T., Boston College—History (1972)
- ELLIOTT, SANDRA *Teacher of Community Child Center*
B.S., Tennessee Technological University—Home Economics (1972)
- FEARN, A. ODELL *Admissions Programmer*
A.S., Knoxville Business College—Computer Science (1973)
- FISHER, BRUCE A. *Associate Professor of Biology/Chemistry*
B.S., Lincoln Memorial University—Biology
M.S., University of Tennessee—Zoology
Ph.D., University of Tennessee—Zoology (1974)
- FISHER, NANCY M. *Department Head of Humanities,
Professor of English*
A.B., Women's College, University of North Carolina—English
M.A., Florida State University—English
Ph.D., University of Tennessee—English (1969)
- FOLTZ-GRAY, DANIEL A. *Assistant Professor of Developmental Studies/Reading*
B.A., University of Pennsylvania—English
M.A., University of Chicago—English Literature and Creative Writing (1974)
- FUQUA, WILLIAM S., III *Business Manager*
B.S., Tennessee Technological University—Business Administration (1974)
C.P.A., State of Tennessee
- GARNER, SUSAN A. *Assistant Professor of Physical Education*
B.S., Middle Tennessee State University—Health, Physical Education, Recreation
M.Ed., Middle Tennessee State University—Health, Physical Education, Recreation
(1974)
- GENTRY, JERRY *Programmer/Analyst*
A.S., Pensacola Junior College—Industrial Management Engineering Technology
B.A., National University—Computer Information System
M.A., Golden State University—Management (1982)

- GLOVER, IRVING T. *Associate Professor of Chemistry*
 B.S., University of North Carolina—Science Education
 M.Ed., University of North Carolina—Education
 Ph.D., University of Virginia—Chemistry (1964)
- GOLDBERG, PAUL E. *Assistant Dean of Continuing Education*
 B.S., University of Tennessee—Economics
 M.S., University of Tennessee—Geography
 Ed.D., University of Tennessee—Educational Administration and Supervision (1974)
- GOMEZ, MAYBELLE P. *Assistant Professor of Biology*
 B.S., University of Philippines—Botany
 Ph.D., University of Tennessee—Botany (1974)
 Postdoctoral Research, University of Florida
- GREENE, LOUISE R. *Assistant Dean of Educational Services*
 B.S., University of Tennessee—History
 M.S., University of Tennessee—Educational Administration and Supervision
 Ed.D., University of Tennessee—Educational Administration and Supervision (1981)
- HARDIN, JERRY W. *Director of Academic Special Programs*
 B.S., Berea College—Industrial Arts Technology
 M.Ed., University of Missouri—Industrial Education
 Ed.S., University of Missouri—Industrial and Higher Education
 Ph.D., University of Missouri—Technical Education (1975)
- HARRIS, RICHARD E. *Programmer/Analyst*
 A.S., Roane State Community College (1975)
- HEIDINGER, GARY L. *Associate Professor of Sociology*
 B.S., Bethel College—History
 M.A., George Peabody College—History (1965)
- HENION, TIMOTHY R. *Clinical Director and Instructor of Respiratory Therapy*
 A.S., Loma Linda University
 B.S., Loma Linda University—Respiratory Therapy (1979)
 Certified Respiratory Therapy Technician
 Registered Respiratory Therapist
- HOAGLAND, JUDY K. *Associate Professor of Economics*
 B.S., Middle Tennessee State University—Political Science
 M.A., University of Tennessee—Political Science (1973)
- HOAGLAND, WILLIAM M. *Associate Professor of Political Science*
 B.S., Lambuth College—History
 M.S.S., University of Mississippi—History (1966)
- HOLDER, MABRE M. *Associate Professor of Business*
 B.S., Middle Tennessee State University—Business (Marketing)
 M.B.A., Middle Tennessee State University—Business Administration (1974)
- HOWARD, BENJAMIN S. *Associate Professor of English/German*
 B.A., University of Tennessee—English
 M.A., University of Tennessee—German
 Ph.D., University of Georgia—Comparative Literature (1972)
- HOWARD, REBECCA M. *Associate Professor of Mathematics*
 B.S., North Carolina State—Mathematics
 M.A.M., North Carolina State—Mathematics (1968)
- HUNT, HERMAN H. *Assistant Professor, Director of Respiratory Therapy Technology,
 Non-Traditional Respiratory Therapy, Holston Valley Off-campus Program.*
 B.S., Loma Linda University—Respiratory Therapy (1980)
 Certified Respiratory Therapy Technician
 Registered Respiratory Therapist

- INGRAM, JOY LIGGETT *Assistant Professor of History*
 A.A., Roane State Community College—History
 B.A., University of Tennessee—History
 M.S., University of Tennessee—History (1978)
 (On Leave of Absence)
- JENKINS, MARGARET F. *Assistant Professor of English*
 B.A., University of Tennessee—English
 M.A., University of Tennessee—English
 M.S., University of Tennessee—Dance (Physical Education)
- JOHNSON, ELAINE B. *Director of Nursing Education,
 Associate Professor of Nursing*
 B.S.N., University of South Carolina—Nursing
 M.N., Emory University—Nursing (1964)
- JOHNSON, J. ALTON *Executive Director of RSCC Foundation*
 B.S., North Georgia College—Business Administration (1959)
- JUANG, JENG-NAN *Assistant Professor of Engineering Technology,
 Engineering Option*
 B.S., Taiwan Provincial College—Electronic Engineering
 M.S., Tennessee Technological University—Electrical Engineering (1978)
- KING, FRANCES T. *Purchasing Analyst*
 A.A., Freed/Hardeman Junior College—Zoology (1945)
- KIRKPATRICK, MELVIN A. *Department Head of Education/Developmental Studies
 Professor of Mathematics/Education*
 B.S., Tennessee Technological University—Mathematics, Secondary Education
 M.S.T., Middle Tennessee State University—Mathematics
 Ed.D., University of Tennessee—Curriculum and Instruction (1978)
- KNOX, JAMES M. *Instructor of English*
 B.S., Tennessee Technological University—Secondary Education, French
 M.A., Tennessee Technological University—English (1978)
- KNOX, MARTHA C. *Associate Professor of English*
 A.B., University of Tennessee—English
 M.A., University of Tennessee—English (1965)
 (On Leave of Absence)
- KRING, JAMES B. *Associate Professor of Biology*
 B.S., Maryville College—Biology
 M.S., University of Tennessee—Botany (1965)
- LAND, PATRICIA C. *Coordinator of Placement*
 A.A., University of Florida—General Studies
 B.A., University of Florida—Secondary Education
 M.Ed., University of Florida—Education (1976)
- LEEMAN, BECKY C. *Coordinator of Records*
 B.S., Tennessee Technological University—Business (1977)
- LeMAY, CHARLENE L. *Instructor of Nursing*
 B.S.N., Vanderbilt University—Nursing (1967)
- LIMBURG, J. RUSSELL *Senior Accountant*
 B.S., Tennessee Technological University—Accounting (1973)
- LISKOVEC, EDWARD W. *Assistant Professor of Business*
 B.A., Florida Technical University—Business Education
 M.S., University of Tennessee—Business Education (1976)

- LOCKETT, JERRY A. *Instructor of Respiratory Therapy*
 A.A., Lake City Community College—Mathematics
 B.S., East Tennessee State University—Chemistry
 University of Chicago—Respiratory Therapy (1978)
 Certified Respiratory Therapy Technician
 Registered Respiratory Therapist
- MANNING, WANDA H. *Teacher Associate/Developmental Studies*
 A.S., Roane State Community College—Education
 B.S., Tennessee Technological University—Secondary Education, Biology
 M.A., Tennessee Technological University—Secondary Education (1982)
- MARTIN, FREDRIC H. *Dean of Administrative Affairs*
 B.S., University of Tennessee—Science Education
 M.S., University of Tennessee—Science Education
 Ed.D., University of Tennessee—Curriculum and Instruction (1972)
- MIKKOLA, SHERRY *Programmer/Analyst*
 A.S., Tri-Cities Technical Institute—Data Processing
- MILLER, ANNA E. *Coordinator of Music*
Assistant Professor of Music
 A.A., Virginia Intermont College—General
 B.M., University of Tennessee—Music Theory
 M.M., University of Tennessee—Music Theory (1977)
- MILLICAN, MILDRED R. *Personnel Officer*
 Roane State Community College
- MINTER, ANNE P. *Associate Dean of Arts and Sciences,*
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)
- MONROE, LINDA *Department Head of Allied Health (Acting),*
Assistant Professor of Medical Laboratory Technology
 B.S., University of Tennessee Center for the Health Sciences—Medical Technology
 M.S., Memphis State University—Educational Administration and Supervision (1979)
- MOORE, ALICE A. *Associate Professor of Medical Records*
 B.S., Indiana University—Medical Records Administration (1967)
 R.R.A., Registered Record Administrator
- MOORE, LOUANNE K. *Instructor of Nursing*
 B.S., University of Tennessee—Nursing
 M.S., University of Tennessee—Nursing (1982)
- MORRIS, STEPHANIE A. *Instructor of Chemistry*
 B.S., Florida State University—Chemistry
 M.S., University of Tennessee—Chemistry (1981)
- MOWERY, SAMMIE R. *Teacher Associate/Developmental Studies*
 A.S., Roane State Community College—Secondary Education
 B.S., East Tennessee State University—Elementary Education
 M.S., University of Tennessee—Adult Education (1983)
- MULLINS, C. DAVID, JR. *Assistant Professor of English*
 B.A., Samford University—Education
 M.S., University of Tennessee—English Education (1973)
- MUNZ, ANN G. *Coordinator of Special Projects,*
Administrative Assistant to the President
 B.S., Austin College—English
 M.S., University of Tennessee—Special Education (1978)
- MURRAY, WILLIAM P. *Associate Professor of Physics/Engineering Technology*
 B.S., University of Cincinnati—Chemical Engineering
 M.S., University of Tennessee—Chemical Engineering (1970)

- NAMKUNG, AGNES I. *Professor of Computer Science*
 B.S., Korea University—Mathematics
 M.Ed., Yonsei University—Mathematics
 M.S., University of Tennessee—Computer Science
 Ed.D., University of Tennessee—Curriculum and Instruction (1975)
- NAVE, JAMES L. *Administrator/Instructor, 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. *Librarian*
 B.A., Tennessee Technological University—English
 M.A., George Peabody College—Library Science (1963)
- NELSON, GERALD H. *Director of Computer Services*
 Computer Specialist, United States Air Force
- OGLIVIE, GEORGE *Head Baseball Coach,*
Assistant Professor of Physical Education
 B.A., University of Tennessee—Physical Education
 M.A., Austin Peay University—Education (1980)
- PITTS, BETTY *Counselor*
 B.A., University of Colorado—Elementary Education
 M.A., Murray State University—Guidance and Counseling (1979)
- POULIN, GERALD D. *Assistant Professor of English*
 B.A., Middle Tennessee State University—French and English
 M.A.C.T., Middle Tennessee State University—English (1971)
- PRESTON, JANICE B. *Counselor of Financial Aid/Veterans Affairs*
 B.A., University of Tennessee—Liberal Arts (1976)
- RENFRO, BOBBY *Director of JTPA*
 B.S., Tennessee Technological University—Secondary Education
 M.A., Tennessee Technological University—Administration and Supervision (1970)
- REYNOLDS, LOIS G. *Assistant Professor of English*
 B.A., Belmont College—French
 M.A.C.T., University of Tennessee—English
 M.S., University of Tennessee—Library Science (1980)
- RUDOLPH, JOHNNIE J. *Assistant Professor of Engineering Technology*
 A.S., Cleveland State—Design and Drafting
 B.A., University of Tennessee—Architecture (1976)
- RUSSELL, GAIL D. *Admissions/Financial Aid Coordinator of Roane State-Oak Ridge*
 B.S., West Virginia State College—Business Administration
 M.S., Virginia Polytechnic Institute and State University—Counseling/Student
 Personnel (1978)
- SAFDIE, ROBERT *Assistant Professor of Psychology/Business*
 B.A., University of Tennessee—Psychology
 M.A., Middle Tennessee State University—General Clinical Psychology (1976)
- SAIDAK, LANCE R. *Associate Professor of Physical Education*
 B.S., Springfield College—Physical Education
 M.Ed., Florida Atlantic University—Physical Education
 Ed.D., University of Tennessee—Physical Education (1976)
- SAMPLES, WAYNE J. *Assistant Director of Physical Plant*
 Roane State Community College
- SCHUBERT, ROY *Instructor of Computer Technology*
 A.S., Roane State Community College—Computer Science, Social Science
 B.S., Tennessee Technological University—History (1975)
- SEAVER, GARY V. *Assistant Professor of Mining Technology*
 B.S., University of Tennessee—Art Education (1979)

- SEXTON, JEFF *Teacher Associate/Developmental Studies*
 B.S., Tennessee Technological University—Business Administration (1983)
- SMITH, BILLY L. *Assistant Professor of Mathematics*
 B.A., Union College—Chemistry
 M.A., University of Tennessee—Mathematics (1974)
- SMITH, CARROLL H. *Assistant Professor of Physical Education,
 Men's Basketball Coach*
 B.S., Oklahoma Baptist University—Health and Physical Education
 M.S., University of Tennessee—Physical Education (1972)
- SPITZER, PRISCILLA W. *Assistant Professor of Nursing*
 B.S.N., Emory University—Nursing
 M.S.N., Emory University—Adult Health Nursing (1977)
- SPROLES, KATHY JONES *Associate Professor of Developmental Studies/Reading*
 B.A., David Lipscomb College—Speech
 M.Ed., Middle Tennessee State University—Reading (1975)
- SWEET, DAVID G. *Department Head of Engineering Technology,
 Assistant Professor of Engineering Technology*
 B.S., University of Tennessee—Electrical Engineering
 M.S., University of Tennessee—Electrical Engineering (1981)
- TEETER, W. SCOTT *Assistant Professor of Police Science*
 B.S., Eastern Kentucky University—Law Enforcement
 M.S., Eastern Kentucky University—Criminal Justice Enforcement (1976)
- THAIS, DAVID F. *Assistant Professor of Business*
 B.S., Indiana State University—Management
 M.B.A., Indiana State University—Business Administration (1974)
 C.P.A., State of Tennessee
- THOMAS, BOB F. *Associate Dean of Career Education (Acting),
 Department Head of Business and Economics,
 Associate Professor of Business*
 B.S., University of Tennessee—Marketing
 M.B.A., University of Tennessee—Industrial/Personnel Management
 D.B.A., University of Tennessee—Business Administration (1984)
- THOMPSON, JOANN W. *Counselor*
 B.S., Tennessee Technological University—Health and Physical Education
 M.S., University of Tennessee—Guidance
 Ed.D., University of Tennessee—Counseling and Educational Psychology (1982)
- TRAINER, MARTHA S. *Associate Professor of History*
 B.A., University of North Carolina—History
 M.A., Vanderbilt University—English, History (1967)
- UNDERWOOD, HAROLD L. *Dean of the College*
 B.S., Mississippi State—Science Education
 M.S.C.S., University of Mississippi—Mathematics
 Ed.D., Auburn University—Educational Administration (1971)
- USHER, ROBERT L. *Assistant Professor of Business*
 B.S., Indiana University—Chemistry
 B.S., Tennessee Technological University—Business Administration (Accounting)
 M.S., Air Force Institute of Technology—Systems Management (1966)
- VIX, PAUL *Instructor of Nursing*
 B.A., University of Tennessee—Zoology
 M.S., University of Tennessee—Nursing (1983)
- WARE, CHARLOTTE A. *Instructor of Medical Records*
 A.S., Roane State Community College—Medical Record Technology (1977)

- WETHERINGTON, SARAH C. *Assistant Professor of Nursing, Child Health*
B.S.N., Vanderbilt University School of Nursing
M.S.N., University of Alabama School of Nursing (1979)
- WHEELER, STEPHEN H. *Instructor of American History*
B.A., University of Mississippi—History
M.A., University of Mississippi—History
A.B.D., University of Mississippi—History (1984)
- WORKS, LARRY P. *Assistant Professor of Psychology*
B.S., East Tennessee State University—Health and Physical Education
M.S., University of Montana—Health, Physical Education and Psychology (1968)
- WORKS, MYRIAN *Assistant Professor of Nursing*
B.S., University of Tennessee—Nursing
M.S., University of Tennessee—Nursing (1979)
- YATES, WILLIAM B. *Associate Professor of Speech and Theatre*
B.A., Tennessee Wesleyan College—History
M.A., University of Tennessee—Public Address and Theatre Arts (1962)
- YORK, KINCH M. *Director of Physical Plant*
Memphis State University
- ZACHRY, JOEL G. *Associate Professor of Biology*
B.S., Tennessee Technological University—Education
M.S., Middle Tennessee State University—Biology (1971)

COLLEGE COUNCILS, COMMITTEES, AND TASK FORCES

Academic/Curriculum Council	Nursing Admissions Committee
Administrative Council	Personnel Committee
Faculty Council	Planning Committee
Admissions and Retentions Committee	Professional Development Committee
Allied Health Admissions Committee	Publications Committee
Athletic Committee	Tenure and Promotion Committee
Awards Committee	Tenure and Promotion Hearing Committee
Computer Users Committee	Scholarships and Financial Aid Committee
Concerts and Lectures Committee	Veterans' Advisory Committee
Continuing Education Advisory Committee	Affirmative Action Task Force
Discipline Committee	Communications Technology Task Force
Faculty Evaluation Committee	Remedial/Developmental Studies Task Force
Graduation Committee	
Honors Committee	
Library 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 in the student center. An open hour for faculty to discuss matters of concern is scheduled in the faculty office areas.

ROANE STATE COMMUNITY COLLEGE FOUNDATION

The Roane State Community College Foundation, Inc., is a not-for-profit corporation organized under Tennessee law and is fiscally and organizationally separate from the college. Its purpose is to receive private gifts, bequests, and donations, and to account for, manage, and help appreciate monies or property submitted to the Foundation. Such donations are totally tax deductible. Funds for the Foundation are distributed to benefit and advance Roane State and for the encouragement and subsidization of students and faculty of Roane State Community College. The Foundation supports programs and activities which promote college objectives.

Board of Directors (1985-86)

Robert L. Badger	Dr. Fred H. Martin
Edward C. Browder	Betty Maxwell
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Judy Duncan	Russell Simmons, Sr.
Judge E. Eugene Eblen	Betty Sisk
Robert J. Hart	Robert L. Smith
J. Alton Johnson, ex-officio	George Ed Wilson, Jr.

Executive Committee (1985-86)

Robert L. Smith, Chairperson
 Judy Duncan, Vice-Chairperson/Chairperson Elect
 Fred Martin, Treasurer
 J. Alton Johnson, Executive Director/Secretary
 Cuyler A. Dunbar, President of the College
 Betty Maxwell, Member-at-Large
 Russell Simmons, Jr., Member-at-Large

ADVISORY COMMITTEES FOR TECHNICAL PROGRAMS, 1984-85**COOPERATIVE EDUCATION ADVISORY COUNCIL**

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 Sharon Cook
 Bob Creswell
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 James Fair
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 Bob Thomas
 Dr. Harold Underwood
 Dr. Richard Wiesehuegel
 Kerry Wolfe
 Deborah Tweed

Personnel Specialist
 Third National Bank, Public Relations
 Roane State Community College
 Bechtel National, Inc., Personnel
 Roane State Community College
 Professional Loss Control, Inc.
 E G & G Ortec, Personnel
 Lockwood, Greene Engineers
 Personnel Specialist
 Stone and Webster, Personnel
 Roane State Community College
 Roane State Community College
 ORAU, University Programs
 Presearch, Inc., Personnel
 Boeing Engineering Co., Southeast, Inc.

MEDICAL LABORATORY TECHNOLOGY

Dr. Bruce Bellomy
 Dr. Alex Carabia
 Jane Nichols Casey
 Dr. Bruce Fisher
 Deborah Fowlkes
 Amelia Jordan
 Dr. Chris P. Keim
 Linda Monroe
 Don Ward

Fort Sanders Regional Medical Center
 Methodist Medical Center of Oak Ridge
 Roane State Community College
 Roane State Community College
 Methodist Medical Center of Oak Ridge
 Harriman City Hospital
 RSCC Consultant
 Roane State Community College
 Methodist Medical Center of Oak Ridge

MEDICAL RECORD TECHNOLOGY

Dr. Carolyn Beard
 Susan Byerly

Robert Couch
 Sue Gray
 Jerry L. Meadows
 Diane Miller
 Alice A. Moore
 Ned Russell

Charlotte Ware

County Health Clinics
 Fort Sanders Regional Medical Center, Tumor
 Registry
 Cumberland Medical Center
 Sweetwater Hospital, MRT
 Chamberlain Memorial Hospital, Administration
 Harriman City Hospital, MRT
 Roane State Community College
 UT Memorial Research Center and Hospital,
 Personnel
 Roane State Community College

RADIOLOGICAL THERAPY TECHNOLOGY

John Couch
 Robert Couch
 Dr. J. W. Lindsay
 Cathy Parsons
 Della Porterfield
 Wayne Sherrill

Chamberlain Memorial Hospital
 Cumberland Medical Center
 Cumberland Medical Center
 Chamberlain Memorial Hospital
 Roane State Community College
 Cumberland Medical Center

RESPIRATORY THERAPY TECHNOLOGY

Ralph Clifford
 Terry H. duPont
 Darrell Eastridge
 Catherine Everhart
 Bruce A. Fisher
 Timothy R. Henion, *ex-officio*
 G. Turner Howard, III
 Buddy Hunt, *ex-officio*
 Jerry Lockett, *ex-officio*
 Steve Mapes
 Richard Obenour, M.D., *ex-officio*
 Sue Parks
 Dan Richardson, *ex-officio*
 Joseph F. Smiddy, M.D., *ex-officio*
 Jim Sutton

Student Reps from traditional and non-traditional components

Johnson City Hospital
 East Tennessee Baptist Hospital
 East Tennessee Baptist Hospital
 Fort Sanders Regional Medical Center
 Roane State Community College
 Roane State Community College
 West Emory Presbyterian Church, Knoxville
 Roane State Community College
 Fort Sanders Regional Medical Center
 Fort Sanders Regional Medical Center
 UT Memorial Research Center & Hospital
 East Tennessee Baptist Hospital
 Holston Valley Hospital
 Holston Valley Hospital
 UT Memorial Research Center & Hospital

BUSINESS MANAGEMENT TECHNOLOGY

Tom Carter
 Carroll Marsalis
 Tony Mason
 Rod McPeters
 Clem Renfro
 Bill Satterfield

Roane County Industrial Board
 Tennessee Valley Authority
 Bank of Roane County
 Red Kap Industry
 Third National Bank
 Sports Products of America, Inc.

COMPUTER TECHNOLOGY

Tom Aiken
 David Coffey
 Dr. R. P. Leinius
 Dr. John R. Ray
 Dr. Gordon R. Sherman

Oak Ridge Associated Universities
 The Nucleus, Inc.
 Martin Marietta Energy Systems, Inc.
 University of Tennessee, Knoxville
 University of Tennessee, Knoxville

OFFICE ADMINISTRATION

Toni Anderson
 Tom Allen
 Joann Baker
 Delorise Barnes
 Gay Bryant
 Joyce Cagle
 Thomas J. Call
 Teresa Howell
 Eddie Liskovec
 Martha Lyle
 Travis Lynch
 Jeanne Moody
 Dr. E. Ray Smith
 Bob Thomas
 Deborah Tweed
 Kerry Wolfe

Science Applications International Corp.
 Martin Marietta Energy Systems, Inc.
 E G & G Ortec, Inc.
 Roane State Community College
 Roane State Community College
 Oak Ridge Associated Universities
 Bechtel National, Inc.
 Martin Marietta Energy Systems, Inc.
 Roane State Community College
 Department of Energy, Oak Ridge Operations
 Maxima, Inc.
 Professional Secretaries International
 University of Tennessee, Knoxville
 Roane State Community College
 Boeing Engineering Company, Southeast, Inc.
 Pre-Search, Inc.

COAL MINING TECHNOLOGY

Jim Branscomb
 David Hughes
 George McGrew
 Tom Morgan
 Bill Wright

Engineering Aide and Permitting Specialist
 Environmental Reclamation and Revegetation
 Specialist
 Engineer and Permitting Specialist
 Mine Owner/Operator
 MSHA Safety Inspector and Mine Rescue
 Specialist

ELECTRICAL TECHNOLOGY OPTION

John L. Anderson
Tom Becker
David Carpenter
Mike Duncan
Ralph G. Johnson
M. V. Mathis

Oak Ridge National Laboratory
E G & G Ortec, Inc.
NAPCEC
Tennessee Valley Authority
Tennessee Valley Authority
Technology for Energy Corporation

FIRE SCIENCE TECHNOLOGY

J. T. Blackmon, Jr.
William Boyd
James Buffler
Bruce Cureton
Darrell Franchuk
William Harris
Robert Hill
John Hoogesteger

Blackmon Safety Services, Inc.
USF&G
State of TN Department of Labor
Knoxville Fire Department
Professional Loss Control, Inc.
Oak Ridge Fire Department
Karns Volunteer Fire Department
TN Valley Chapter of Society of Fire Protection Engineers
Fire Protection Engineer
CNA Insurance Companies
State of TN Fire Instructor
Professional Loss Control, Inc.
TN Rural Metro Fire Department
Martin Marietta Energy Systems, Inc.
Knox County Code Administration

James Hutton
David W. Jerkins
James M. McVay
Robert O'Laughlin
Geary D. Roberts
Harold Rose
Wayne Waggoner

QUALITY ASSURANCE TECHNOLOGY

Ed Bailey
Phil Duncan
John Gerwels
Bob Gilliam
J. T. Johnston
Les Kent
Tom Kirthlink
Joe P. Knight
Dr. Alan H. Lasater
Edward Lyon
Robert T. McBride
Earl R. Mills
Frank Neill
Lyle Peterson
Ellis Stair
B. J. White

Department of Energy
Tennessee Valley Authority
Martin Marietta Energy Systems, Inc.
Modine Manufacturing Company
Martin Marietta Energy Systems, Inc.

E G & G Ortec, Inc.
Gilbert Commonwealth Assoc.
University of Tennessee
Technology for Energy Corporation
Maremont Corporation
Quality Control Consultant
Martin Marietta Energy Systems, Inc.
Martin Marietta Energy Systems, Inc.
Boeing Engineering Co., Southeast, Inc.
Martin Marietta Energy Systems, Inc.

POLICE SCIENCE

Thomas A. Austin
Timothy A. Braaten
James W. Cisson
Arnold Clowers
Donald Day
Charles L. Drew
Robin Hamby
Gary Humphreys
Odie Jones
Dennis Ledbetter
Larry Lively
Cheryl Matney
Alisia McCloud
Larry Miller
Diane Newport
Thomas Van Ripper
Joe Shadden
Joe Sims
Darrell Sirmans
Charles Stiles

General Sessions Judge
Chief, Oak Ridge Police Department
Captain, Tennessee Highway Patrol Officer
Sheriff, Roane County
Chief, Harriman Police Department
Criminal Investigation, Harriman Police Dept.
Youth Service Officer, Roane County
Chief, Kingston Police Department
Warden, Morgan County Regional Prison
Sheriff, Morgan County
Director, Taft Youth Center
Tennessee Highway Patrol Officer
Ridgeview Psychiatric Center
Assistant Professor of Criminology, ETSU
Youth Service Officer, Scott County
Sheriff, Anderson County
Sheriff, Cumberland County
Sheriff, Loudon County
Criminal Investigation, Roane County
Captain, Southern Railway Police

CLINICAL AFFILIATES AND CLINICAL SUPERVISORS FOR ALLIED HEALTH PROGRAMS

Medical Laboratory Technology

Anderson, Teresa, OLA (ASCP), Clinical Instructor	Medic Regional Blood Center
Carabia, Alex, M.D., Medical Director	Methodist Medical Center of Oak Ridge
Chesney, Penney, CLA (ASCP), Clinical Instructor	Harriman City Hospital
Coleman, Mary Lee, MT (ASCP), Clinical Instructor	Methodist Medical Center of Oak Ridge
Hillis, Sherry, MT (ASCP), Clinical Instructor	Methodist Medical Center of Oak Ridge
Jordan, Amelia, MT (ASCP), Laboratory Supervisor	Harriman City Hospital
Kerr, Paula, MT (ASCP), Clinical Instructor	Medic Regional Blood Center
Plemons, Sara, CLA (ASCP), Asst. Laboratory Supervisor	Harriman City Hospital
Robbins, Jill, CLA (ASCP), Clinical Instructor	Methodist Medical Center of Oak Ridge
Rogers, Gerome, CLA (ASCP), Clinical Instructor	Harriman City Hospital
Russell, Ed, CLA (ASCP), Clinical Instructor	Methodist Medical Center of Oak Ridge
Seay, Nancy, RN, Clinical Instructor	Medic Regional Blood Center
Seitz, Ben, B.S., Clinical Instructor	Methodist Medical Center of Oak Ridge
Terry, Mary, MT (ASCP), Clinical Instructor	Methodist Medical Center of Oak Ridge
Thomas, Tom, Clinical Instructor	Methodist Medical Center of Oak Ridge
Ward, Donald, M.S.S., MT (ASCP), Laboratory Supervisor	Methodist Medical Center of Oak Ridge
White, Oral, MT (AMT), Clinical Instructor	Methodist Medical Center of Oak Ridge
Willis, Monica, MT (AMT), Director of Technical Services	Medic Regional Blood Center

Medical Record Technology

Bates, Dolly, ART, Supervisor, Medical Records	Cumberland Medical Center
Boye, Pat, RN, Director, Quality Assurance	Fort Sanders Regional Medical Center
Brown, Sue, ART, Director, Medical Records	Park West Hospital
Byerly, Susan, ART, Coordinator, Tumor Registry	Fort Sanders Regional Medical Center
Cingilli, Linda, RN, Director, Quality Assurance	East Tennessee Baptist Hospital
Gray, Sue, RRA, Director, Medical Records	Sweetwater Hospital
Harrold, Frances, RN, Director, Quality Assurance Dept.	University of Tennessee Center for the Health Sciences
Hinkle, Beverly, ART, Director, Medical Records	Lakeshore Mental Health Institute
Lopez, Tandy, Coordinator, Tumor Registry	University of Tennessee Center for the Health Sciences
Miller, Diane, ART, Director, Medical Records	Harriman General Hospital
Mulroy, Shelia, RRA, Director, Medical Records	University of Tennessee Veterinary Teaching Hospital
Park, Ann, ART, Director, Medical Records	Shannondale Health Care Center
Pegram, Mary, RRA, Director, Medical Records	St. Mary's Regional Medical Center
Proffitt, Sandra, ART, Director, Medical Records	Chamberlain Memorial Hospital
Underwood, Beth, ART, Director, Medical Records	Knoxville Health Care Center

CLINICAL AFFILIATES AND CLINICAL SUPERVISORS FOR NURSING

Bryant, Janet, Director of Nursing
Cantwell, Elizabeth, Vice President for Nursing

Dempsey, Patricia, Director of Nursing
Fink, Jenny, Director of Nursing
Jones, Jeanne, Vice President for Nursing
Leffew, Delores, Director of Nursing
Ramsey, Gary, Director of Nursing
Thomas, Rebecca, Director of Nursing
Webb, Jo, Director of Nursing
Wilson, Elizabeth, Director of Nursing

Rockwood Health Care Center
Methodist Medical Center of
Oak Ridge
Park West Hospital
Johnsons Health Care Center
Cumberland Medical Center
Harriman City Hospital
Lakeshore Mental Health Institute
East Tennessee Children's Hospital
Oak Ridge Health Care Center
Chamberlain Memorial Hospital



Pinning Ceremony, RSCC Nursing Class 1984



County Executive Ken Yager signs Proclamation for National Respiratory Therapy Week



President Dunbar consults with Advisory Committee Members

GENERAL INFORMATION



Dr. Larry Bouldin, Chairman of Honors Program, and RSCC graduate, Eric Nicely

COLLEGE HISTORY

Now into its second decade of existence, Roane State Community College serves a fifteen-county area in East Tennessee which includes the Tennessee Technology Corridor. RSCC provides opportunities for transfer education, career education, and continuing education. Designed for students who plan to transfer to senior institutions, the Roane State academic transfer curricula includes two years of instruction in the humanities, mathematics, natural sciences, and social sciences to build a strong liberal arts background during the freshman and sophomore years. RSCC graduates transfer to senior institutions in-state such as the University of Tennessee, Tennessee Technological University, Middle Tennessee State University, East Tennessee State University, and to many out-of-state universities and professional schools.

The Roane State career education division trains students in business management, engineering technology, allied health, nursing, office administration, police and fire sciences, mining technology, and other fields for students desiring two-year degrees. The ever-increasing demand for people to work under the supervision of the scientist, the engineer, the doctor, and the business professional has led to the development of a wide range of career education options.

Under the heading of continuing education are non-credit courses in foreign languages, songwriting, water colors, business, photography, and many others which do not require admission to the college. These courses are offered for personal enrichment, for compliance with business and industrial requirements, for specific technological information and for general cultural benefits.

RSCC is responding to state and federal mandates to promote "Excellence in Education." Programs are being evaluated by students, faculty and alumni to insure successful transfer or career placement upon graduation. Roane State seeks to serve those students who are serious about the challenge of education for a more productive life. A new Honors Program for gifted students is being implemented in the Fall of 1985.

A general education core curriculum including the humanities, arts, math and sciences is required of all graduates. Also, Roane State is implementing the state educational initiative to require all graduates to be computer literate. Timely, new career programs to meet employment demands now and in the future include Health Physics, Quality Assurance, Robotics, and Physical Therapy Assistant. Roane State cooperates with area business and industry to identify critical employee/employer training and retraining needs.

Beginning with the Pierce-Albright report in 1957, which resulted in a \$200,000 appropriation by the Tennessee General Assembly in 1963 to initiate the community college system, the philosophy of community colleges in Tennessee has been to provide higher education for all Tennessee residents. The first three community colleges were established in 1965, with one in each of Tennessee's three grand divisions — Cleveland in East Tennessee, Columbia in Middle Tennessee, and Jackson in West Tennessee. Additional community colleges opened in Dyersburg and Tullahoma in 1969, and the sixth community college opened in Morristown in 1970.

In 1969, the General Assembly, upon the recommendation of Governor Buford Ellington and the State Department of Education, authorized three additional community colleges, to be built in Sumner, Roane and Shelby counties. After visits by Commissioner J. Howard Warf and other officials from the State Department of Education in 1969, a site on Patton Lane was chosen as the permanent location of Roane State. In May of 1970, Dr. Cuyler A. Dunbar was selected as the first president of the college. After beginning classes in the Fall of 1971 in a temporary location, RSCC occupied the first permanent building on Patton Lane in August 1973.

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

Construction on Campus Expansion Phase II began in June, 1978. The Maintenance Building was completed in June, 1979, and the Library/Learning Resource Center in September, 1980. In addition to reference and audio-visual services, the center houses developmental studies and reading laboratories.

Through fourteen years of continuous change, growth and expansion of programs, Roane State has grown to serve 3600 students enrolled for credit in 1984. More than 1500 students are served yearly through non-credit courses, programs and workshops.

The growth at the Oak Ridge facility, the largest off-campus site, has resulted in the first off-campus building expansion for the college. An innovative approach for community college and technical education and training has been initiated by the Tennessee State Board of Regents. A joint facility for RSCC and State Technical Institute at Knoxville on the Pellissippi Parkway/Technology Corridor has a projected opening date of Fall, 1986. RSCC will have expanded educational facilities including classrooms, laboratories and faculty and administrative office space to serve the Knoxville/Oak Ridge area.

Location

The Harriman campus of Roane State Community College consists of 104 acres located near 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 and easily accessible from Interstate 40 and U.S. Highways 27 and 70. The new off-campus site will be located on Pellissippi Parkway at Hardin Valley Road, midway between Knoxville and Oak Ridge. RSCC, State Technical Institute at Knoxville and the Tennessee Technology Foundation will share the new facility.

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 excellence in teaching, professional counseling and guidance and supplementary services offered for 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:

- (1) 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 continuing education 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 excellent quality;
- (3) Supporting a position of low fees for its students;
- (4) Maintaining a fundamental awareness of critical needs for 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. 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 and residents of the community are encouraged to participate actively in the social, cultural and intellectual activities of the College and the community.

NOTICE

The provisions of this catalog constitute a contract between Roane State Community College and a student who commences any program of study insofar as it relates to the degree requirements for that program during the effective period of this catalog, and the degree requirements are subject to change during such period only to the extent required by federal or state laws or accreditation standards. The specific courses or activities constituting the degree requirements for any program are subject to substitution at any time prior to completion by the student.

The remaining provisions of this catalog reflect the general nature of and conditions concerning the educational services of Roane State Community College in effect at this time but do not constitute a contract or otherwise binding commitment between the college and the student. Any fees, charges, or costs, and all academic regulations set forth in this catalog are subject to change at any time, and all courses, programs and activities described in this catalog are subject to cancellation or termination by the college or the State Board of Regents at any time.

Roane State Community College provides the opportunity for students to increase their knowledge by providing programs of instruction in the various disciplines and programs through faculty who, in the opinion of the college, are trained and qualified for teaching at the college level. However, the acquisition of knowledge by any student is contingent upon the student's desire to learn and his or her application of appropriate study techniques for any course or program. As a result, the college does not warrant or represent that any student who completes a course or program of study will necessarily acquire any specific knowledge or skills, or will be able to successfully pass or complete any specific examination for any course, degree, or license.



1984 National Championship Coach Jim Davis with class



1985 Miss Roane State Pageant Contestants



Career Education Day, RSCC 1985



Executive Director Janet Byrne assists with vision screening for Community Child Center

ADMISSIONS AND RECORDS



ADMISSIONS

Roane State Community College subscribes to the "open door" policy for admissions; however, admission may be granted on a "controlled" basis if ACT scores and/or placement assessment results indicate any academic deficiencies. Regular admission is granted to those students whose ACT scores and/or placement results indicate that there are no academic deficiencies.

The following general requirements apply, and more specific requirements are found under "student classifications."

1. 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.
2. 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 under 21 years of age must submit ACT scores. 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, Iowa City, Iowa 52242. Roane State Community College's ACT Code Number is 3985. This number should be used when requesting that scores be sent to RSCC.
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 **regular** enrollment at Roane State. This requirement does not affect the student who enters the college with a GED certificate.
6. Applicants seeking degree status who graduated from a high school which has not been approved by the State of Tennessee or accredited by the Southern Association of Colleges and Schools must validate their eligibility for admission by achieving a score of 16 or above on each sub-test of the ACT. Applicants who fail to achieve this score must successfully complete the GED Test (Score 45).
7. The deadline for submitting applications for admission is 21 days prior to registration for courses. No applicant will be permitted to register until all required data (completed application forms, ACT scores and/or Placement Assessment scores, transcripts, medical histories, etc.) have been received by the Office of Admissions and Records and a determination has been made as to whether the admission category is regular or controlled.
8. Transcripts for graduates from Tennessee public high schools must provide evidence that the student passed the required proficiency test battery. Persons who wish to submit the GED score necessary for the equivalency high school diploma in lieu of a high school diploma for college admission may do so.

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 forms early enough to allow ample time for required materials to be forwarded to the Director of Admissions and Records. All required materials must be received by the Office of Admissions and Records prior to the established deadline.

When all admissions 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 and registration.

ADDITIONAL Admissions and Retention requirements are in effect for all Allied Health, Mini-Microcomputer Technology and Nursing Programs as outlined below:

SPECIAL PROGRAM ADMISSION AND RETENTION POLICIES

ADMISSION POLICIES FOR THE ASSOCIATE OF SCIENCE ALLIED HEALTH PROGRAMS

There are special admission policies for Allied Health programs, which include Health Physics, Medical Laboratory Technology, Medical Record Technology, Physical Therapy Assistant, Radiologic Technology, and Respiratory Therapy Technology.

1. The applicant must be a high school graduate, ranking in the upper half of the graduating class, or attain a GED score above the 50th percentile.
2. The applicant must attain a composite score of 18 or above on the American College Testing Program (ACT) or attain a composite score at or above the 50th percentile on the College Qualification Test (CQT).
3. 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 complete an Application for Allied Health Programs and submit it to the Office of Admissions and Records.
5. The applicant must be interviewed by the Program Director of the specific program or a designated representative.
6. A health history and physical examination is required prior to beginning the clinical education.
7. Final selection of students will be made by the Allied Health Admissions Committee.

NOTE: Respiratory Therapy applicants may be required to take additional preadmission testing.

RETENTION POLICIES FOR THE ASSOCIATE OF SCIENCE ALLIED HEALTH PROGRAMS

Students' grades will be evaluated quarterly by the Allied Health Admissions Committee. Students must maintain the following standards or will be dismissed from their respective programs:

1. A grade of "C" or better in each specialty course.
2. A cumulative grade point average of 2.00 in required courses.
3. A cumulative grade point average of 2.00 in required science courses at the end of three quarters after admission into an allied health program. Students failing to achieve the 2.00 grade point average in required science courses will be placed on departmental probation for a period of three quarters. Students cannot graduate from a program without a 2.0 grade point average in required science courses.
4. Completion of course work for the curriculum under which a student was admitted. A student who cannot graduate with the class in which he/she was admitted will be dropped from that class and must reapply to a subsequent class.
5. Evidence of malpractice insurance and a physical examination prior to clinical training.

ADMISSIONS POLICIES FOR ASSOCIATE OF SCIENCE MINI-MICROCOMPUTER TECHNOLOGY PROGRAM

There are special admission policies for the Mini-Microcomputer Technology program. Applicants must be admitted to the program prior to enrollment in any MCT course. Exceptions must be approved by the Program Director.

1. Applicants must be accepted for admission to RSCC.

2. The applicant must complete an application for the Mini-Microcomputer Technology program and submit it to the Office of Admissions and Records. Applicants must submit official copies of the required test scores, high school transcripts when appropriate, and transcripts of all previous work to the Admissions Office. These documents must be sent directly to RSCC by the issuing agency or institution.
 3. Applicants must be high school graduates or have satisfactorily completed the GED test (45 or above).
 4. Applicants must meet either requirement A or B below.
 - A. The applicant must attain a composite score of 18 or above on the American College Testing Program (ACT) or attain a composite score at or above the 50th percentile on the College Qualification Test (CQT).
 - B. The applicant must complete at least 18 hours of work from the general education requirements in the mini-microcomputer curriculum with at least a 2.9 GPA. A "C" or better must be attained in each of the EET and mathematics courses.
 5. The applicant must be interviewed by the Program Director and/or the Department Head for Engineering Technologies Programs.
- Acceptance into the mini-microcomputer program is not automatic, even though the applicant may be academically qualified. Students who are not accepted for the class for which they applied may submit an application for a later class. A *new application* must be submitted each time the applicant wishes to be considered. A class of 30 students will be admitted for each Fall term, and those admitted will be notified in writing by the Office of Admissions and Records. Those rejected will also be notified in writing.

The last day of the Summer quarter is the deadline date for accepting mini-microcomputer applications for the Fall term. All required test scores and transcripts must also be received by this date. (See Academic Calendar, pp. 6-8)

RETENTION POLICY FOR ASSOCIATE OF SCIENCE MINI-MICROCOMPUTER TECHNOLOGY PROGRAM

In order to remain in the program the MCT student must maintain a 2.5 overall GPA and attain a grade of "C" or better in each MCT course.

ADMISSION POLICIES FOR ASSOCIATE OF SCIENCE NURSING PROGRAM

The two-year Associate Degree Nursing Program qualifies students to take the State Board Examination to become Registered Nurses.

The RSCC Admissions Committee has established (for both beginning and transfer students) the following requirements in considering applicants for admission into the Associate of Science Degree Nursing Program:

1. Applicants must apply and be accepted to RSCC.
2. Applicants must submit high school transcripts or GED equivalent and transcripts of all previous college work to the Admissions Office.
3. Applicants must meet either requirement A or B below.
 - A. Complete at least 24 hours of work from the general education requirements in the Nursing curriculum with a minimum 2.75 GPA. A "C" or better must be attained in each required science course.
 - B. Attain a composite score of 18 or above on the ACT battery.
4. Upon acceptance for admission, a physical examination must be submitted, providing evidence of physical status necessary for the practice of all areas of nursing care.

An Admissions Advisory Council considers all eligible applicants and recommends applicants to the Nursing faculty for acceptance into the Nursing Program.

Acceptance into the Nursing Program is not automatic, even though the applicant may be academically qualified and recommended by the Admissions Advisory Council. Class size is limited by clinical and classroom space and faculty availability. Students not accepted for the class for which they applied may apply for a later class.

Students are admitted to the beginning Nursing class each Fall Quarter. Two academic years (6 quarters) excluding summers, regardless of previously earned academic credits, are required for completion of the program.

Transfer students must meet the same requirements as other applicants. No nursing courses earned in a school of practical nursing may be credited or validated, although academic courses in these programs, if earned through a college or university, will be evaluated for transfer. Students transferring from an NLN accredited or state approved School of Nursing will be evaluated for transfer on an individual basis.

Financial Aid may be available. Questions should be directed to the Financial Aid Office. Uniforms are required. Information and forms are included in letters of acceptance into the Nursing Program. Fees for nursing students are the same as for other students with an addition: an annual fee for professional liability insurance is required. (See p. 56)

RETENTION POLICIES FOR THE ASSOCIATE OF SCIENCE NURSING PROGRAM

1. The student must maintain a GPA of 2.0 or better. A "C" must be achieved in each science course in order to progress to the second year of the nursing program.
2. The student must attain a numerical grade of 75 or better in each nursing course. Unsatisfactory clinical performance will result in a D or F for the course.
3. A student must satisfactorily complete his/her clinical experience each quarter in order to continue in the program.

Evaluations of a student's fitness for the nursing program, his/her professional orientation, and his/her growth in the nursing role will be made quarterly within the clinical experience.

A grade of "incomplete" must be removed prior to the first clinical day of the following quarter in order to progress to the next nursing course.

4. The student must carry professional liability insurance while enrolled in nursing courses.

READMISSION POLICIES FOR THE ASSOCIATE OF SCIENCE NURSING PROGRAM

1. Only one readmission to the Nursing program is permitted. Readmission to the Nursing program is also contingent upon the availability of space. Requirements for initial admission to the nursing program must be met in order for a student to be considered for readmission. Students with previous unsatisfactory clinical performance must be recommended for readmission by consensus of the Nursing faculty.
2. Those students who fail to maintain a cumulative GPA of 2.0 may be considered for readmission to the Nursing program after removing all grades of less than C in required general education courses.
3. Students repeating nursing courses must repeat both theoretical and clinical components of the course.

GENERAL STUDENT CLASSIFICATIONS AND REQUIREMENTS

- I. *Degree Student*: Applicants who will take courses for credit which will apply toward a degree.
 - A. *First-time college student*: a new, beginning freshmen
 1. All applicants must submit official high school transcripts or official copy of GED scores.
 2. All applicants under 21 years of age must submit ACT scores.
 3. All applicants 21 years of age and older must undergo placement assessment.
 4. All applicants *under* 21 years of age must undergo placement assessment if any ACT sub-test score is lower than 16. Enrollment in the courses indicated by results of the assessment is mandatory.
 - B. *Transfer Student*: A degree seeking applicant who has attended another college or university will be considered a transfer student. An evaluation of college credit for transfer will be completed.
 1. If less than 12 quarter hours have been accumulated, an official high school transcript or GED scores must be submitted.

2. Official transcripts from all colleges previously attended must be submitted. Transcripts are not accepted from students. A certified copy must be mailed directly to the Office of Admissions and Records, Roane State Community College.
 3. Transfer students under the age of 21 must submit ACT scores. If less than 21 hours have been attempted and any sub-test score is less than 16, placement assessment is necessary. Enrollment in courses indicated by results of the assessment is mandatory.
 4. Transfer applicants who do not meet the Roane State retention standards or whose last term of enrollment resulted in academic probation must undergo placement assessment. Enrollment in the courses indicated by results of the assessment is mandatory.
 5. All transfer applicants whose last quarter of attendance resulted in academic suspension must meet with the admissions and retentions committee to request admission. If admission is granted, the applicant must undergo placement assessment. Enrollment in the courses indicated by results of the assessment is mandatory.
 6. Credits for courses not corresponding with the curriculum at Roane State will be entered on the transcript as elective credit.
 7. The Director of Admissions and Records will screen all applicants for appropriate referral.
- C. *Readmitted Student:* An applicant for readmission is one who has previously taken classes at Roane State Community College, but who has not been enrolled for at least one quarter prior to the quarter of requested readmission.
1. An application for readmission must be filed with the Office of Admissions and Records.
 2. Degree seeking students must submit official transcripts from all colleges or universities attended since their enrollment at Roane State.
 3. All applicants whose last quarter of attendance resulted in academic suspension must meet with the Admissions and Retentions Committee to appeal the suspension prior to readmission. If reinstated, these students must undergo placement assessment. Enrollment in the courses indicated by results of the assessment is mandatory.
 4. All applicants whose last quarter of attendance resulted in academic probation must undergo placement assessment. Enrollment in the courses indicated by results of the assessment is mandatory.
 5. The Director of Admissions and Records will screen all applications for readmission for appropriate referral.
- D. *International Students:* An applicant who is a citizen or a permanent resident of a country other than the United States is classified as an international student.
1. International students under 21 years of age must submit ACT scores.
 2. International students, regardless of age, must undergo placement assessment. Enrollment in courses indicated by results of the placement assessment is mandatory.
 3. 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 500 on this test is required.
 4. 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.
 5. Evidence of financial resources adequate for all expenses for at least one year of enrollment is required. (A statement verifying these resources from a bank in the United States will fill this requirement).
 6. The international student must be familiar with the regulations of the Immigration and Naturalization Service and assume responsibility for complying with these regulations.

All foreign students applying for admission pursuant to a student visa shall submit a certificate from a licensed physician or other qualified medical authority verifying freedom from tuberculosis within thirty (30) days from the first day of classes. Failure to submit such certificate shall result in denial of further enrollment or admission. In the event that a student either has tuberculosis or has potential tuberculosis requiring medical treatment, continued enrollment will be conditioned upon the determination by a licensed physician that further enrollment does not present a risk to others and upon the student's compliance with any prescribed medical treatment program.

- E. *Early Admissions Students*- Students who have completed the junior year in high school and have reached an exceptional level of academic achievement (should approximate 3.5 GPA or better and must have ACT scores of 21 or better) may apply for early admission as a regular degree seeking student contingent upon the following:
1. Agreement between the applicant, the applicant's parents, the high school principal and/or counselor, and the Director of Admissions and Records that this is an appropriate step for the student.
 2. Agreement by the high school principal that the applicant, upon the satisfactory completion of specified courses at Roane State Community College, will be granted a high school diploma.
- F. *Advanced Studies*: Upon completion of the junior year in high school a student may be admitted as an advanced studies student when the criteria below are met and the outlined procedures followed:
1. The high school principal and/or counselor initiates the request for admission to the program for potential students.
 2. Students nominated for this program should have a "B" average or above. Exceptions to this may be considered when the high school principal initiates such a request.
 3. The students nominated must submit ACT scores, and no sub-test score may be less than 16.
 4. The course load may not exceed 10 quarter hours, except in cases where a sequence may be 12 quarter hours.
 5. Courses satisfactorily completed will count as credit for those who submit a high school transcript showing evidence of high school graduation. Advanced Studies students must submit a high school transcript verifying high school graduation prior to enrolling as degree students.
 6. Exceptionally qualified students may continue in advanced studies during their senior year of high school, if recommended by the high school principal. The State Board of Education has ruled that Advanced Studies students may enroll **ONLY** in those college classes which meet after 3:00 p.m. during the academic year.
- G. *Academically Gifted Students*: To qualify as an applicant for this admissions category, students in grades 9, 10, 11 or 12 must be classified as "academically gifted" by evaluation through the multi-disciplinary team process. Admission will be contingent upon the following criteria:
1. A grade point average of 3.2 or better on a 4.0 scale.
 2. Approval of the high school principal and the Director of Admissions and Records.
 3. Enrollment **only** in those courses designated in the student's Individual Education Program (IEP) developed by the multi-disciplinary team.

Applicants in categories A, B, C, and D whose enrollment in Remedial Studies (RMS) or Developmental Studies I (DSI) courses is mandated by placement assessment are admitted on a "controlled admission" basis.

Students whose assessment results require enrollment in Remedial Studies courses may not enroll in regular college level courses until they have satisfactorily met the exit criteria of all of the components of the Remedial Studies program unless the Director of Developmental Studies agrees that the deficiency will not handicap the student's likelihood of success in the particular regular course requested. The Devel-

opmental Studies Appeals Committee will advise the Director relative to the disposition of requests for such exceptions.

Students whose assessment results require enrollment in Developmental Studies I (DSI) courses may not enroll in a regular college level course which requires that competency as a prerequisite until they have satisfactorily met the exit criteria of the appropriate DSI courses. The Developmental Studies Appeals Committee will hear any requests for deviation from this policy, and the committee will make recommendations to the Director of Developmental Studies for a resolution of the appeal.

The Developmental Studies Appeals Committee shall be composed of a DVS Counselor, the Director of Admissions and Records, and a faculty member from the Developmental Studies Department.

- II. *Non-Degree Students*: Applicants who do not wish to work toward a degree may be admitted as Non-Degree Students.
 - A. *Special Student for Credit*: This category includes those students who have previously earned a degree or have accumulated comparable hours. An evaluation of previous college credits will not be completed; however, applicants must show evidence of satisfactory preparation for the courses requested.
 1. An official college transcript, high school transcript or GED score must be submitted.
 2. A maximum of 27 cumulative hours for credit may be attempted while classified as a special student.
 3. Students having attempted 27 cumulative hours must provide evidence of competencies required of degree students or must undergo placement assessment. Competency may be evidenced by prior completion of a degree, comparable hours, or completion of prerequisite courses for the proposed courses.
 4. If the placement assessment is necessary, then enrollment in the courses indicated by the results of the assessment is mandatory.
 5. Students classified for "special-credit" will be limited to no more than nine credit hours per quarter. Exceptions may be made for the student who provides a signed statement from his/her native institution verifying enrollment in a degree program at that institution.
 - B. *Special Student Non-Credit (Audit)* - An audit student is one who has not met the requirements for admission as a regular student and does not receive college credit for course work at Roane State Community College. Included in this category may be persons who are not high school graduates or who have not earned the GED diploma. It may also include disabled or elderly students who qualify for a special fee rate.
 1. Transcripts of previous school work are not required.
 2. Students in this category who wish to be reclassified must submit appropriate transcripts and undergo placement assessment. A change of status form must be completed in the Office of Admissions and Records. Reclassification will not occur until all requirements of the desired admissions category are met.
 3. Enrollment in the courses indicated by results of the placement assessment is mandatory.
 4. A student may not change status during the first quarter of enrollment.
 - C. *Adult Special Student*: A student who has passed his/her twenty-first birthday and who does not meet requirements for a degree seeking or credit seeking student may be admitted as an Adult Special student subject to the following guidelines:
 1. Must undergo placement assessment and take the prescribed remedial and/or developmental courses.
 2. Must, upon achieving required competencies, request a change of status to a degree seeking student.
 - D. *Special Student* - A student who is 60 years of age or over. Applicants 60 years of age and over may be exempted from placement assessment unless specifically requesting a degree program.

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 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 3.0 or higher. Inquiries concerning Advanced Placement should be forwarded to the Office of Admissions and Records.

Departmental Examinations

1. Students desiring to obtain credit by successfully completing departmentally designed examinations must apply to the appropriate department and arrange to take the examination.
2. 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.
3. Students will be allowed to register for departmental examinations at no extra cost (beyond normal maintenance fees) for up to a total of 18 credit hours per quarter. If departmental exams increase the total course load beyond 18 hours, a fee of \$5.00 per additional quarter hour will be charged.

CLEP General and 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 this evaluation will be mailed to the student.

ACCEPTABLE SCALED SCORES ON CLEP TESTS AND AMOUNT OF RSCC CREDIT HOURS AWARDED

	<i>MINIMUM ACCEPTABLE SCORE</i>	<i>AMOUNT OF CREDIT HOURS AWARDED</i>
CLEP GENERAL EXAMINATIONS:		
English Composition	530	9
Humanities	421	9
Mathematics	421	9
Natural Science	421	9
Social Science - History	421	9
CLEP SUBJECT EXAMINATIONS:		
Accounting, Introductory	47	9
Afro-American History	49	3
American Education, History of	46	3
American Government	47	3
American History	46	9
American Literature	46	9
Biology, General	46	12

	MINIMUM ACCEPTABLE SCORE	AMOUNT OF CREDIT HOURS AWARDED
CLEP SUBJECT EXAMINATIONS:		
Business Law, Introductory.....	51	3
Calculus with Elementary Functions	47	9
Chemistry, General	47	12
College Algebra	45	3
College Algebra-Trigonometry.....	45	3
College Composition	47	9
College French (Levels 1 and 2)		
Second Semester.....	41	9
Fourth Semester.....	53	9
College German (Levels 1 and 2)		
Second Semester.....	40	9
Fourth Semester.....	48	9
College Spanish (Levels 1 and 2)		
Second Semester.....	41	9
Fourth Semester.....	50	9
Computers and Data Processing	47	3
Computer Programming, Elementary - FORTRAN IV.....	48	3
Educational Psychology.....	46	3
English Literature.....	46	9
Freshmen English	47	9
Human Growth and Development.....	45	3
Literature, Analysis and Interpretation of.....	49	9
Macroeconomics, Introduction.....	48	3
Management, Introduction to.....	47	3
Marketing, Introductory.....	48	3
Medical Technology		
Clinical Chemistry	47	*
Hematology.....	46	*
Immunohematology	47	*
Microbiology.....	48	4
Microeconomics, Introductory	47	3
Micro- and Macroeconomics, Introductory	47	3
Money and Banking.....	48	3
Nursing		
Anatomy, Physiology, Microbiology.....	44	**
Behavioral Sciences for Nurses.....	45	**
Fundamentals of Nursing.....	44	**
Medical-Surgical Nursing	46	**
Psychology, General.....	47	3
Sociology, Introductory	47	3
Statistics	49	3
Tests and Measurements	46	3
Trigonometry.....	50	3
Western Civilization.....	50	9

*These examinations are based on subject matter covered during the clinical year of training of medical technology students.

**These examinations are based on subject matter covered during the first year of a two-year Associate of Science Degree in the Nursing Program.

Course Credit for Passing the CPS Examination

Persons passing the Certified Professional Secretary examination will be granted 30 hours of credit at Roane State for the following courses which will apply to a degree in Business Management Technology or Office Administration Programs:

BUS 1010	Introduction to Business.....	3
BUS 2210	Principles of Accounting I.....	3
BUS 2510	Legal Environment for Business	3
BUS 2610	Psychological Aspects of Management.....	3
BUS 2910	Management and Supervision I.....	3
COE 1010	Cooperative Education I.....	3
ECO 2010	Principles of Economics I.....	3
OAD 2130	Word/Information Processing Concepts	3
OAD 2210	Office Administration	3
OAD 2330	Business Communications II.....	3
		<u>30</u>

Credits awarded are subject to change when the actual content of the CPS examination no longer corresponds to course content or when courses at RSCC are revised substantially.

In order to receive credit for these courses, the CPS applicant must follow the procedures listed below:

1. The CPS holder will apply to the Office of Admissions and pay the application fee required.
2. The CPS holder will present his/her CPS certificate to the Admissions Office upon application as sufficient proof of his/her CPS status.

Course Credits for TVA's Instrument Mechanic Apprentice Training Program

The TVA Instrument Mechanic Apprentice Training Program courses have been evaluated by the Engineering Technology faculty and are considered to be equivalent to RSCC courses as shown below.

<i>TVA Course</i>	<i>RSCC Course</i>	<i>Quarter Hours</i>
Math for Instrumentation I	MAT 1110	Introduction to Analysis I 3
Math for Instrumentation II	MAT 1110	Introduction to Analysis I 3
Physics for Instrumentation I	PHY 2010	General Physics I 4
Physics for Instrumentation II	PHY 2020	General Physics II 4
	PHY 2030	General Physics III 4
Basic Electricity	EET 1010	Electric Circuits I 3
	EET 1015	Electric Circuits Lab I 1
	EET 1020	Electric Circuits II 3
	EET 1025	Electric Circuits Lab II 1
Electronics I and Electronics II (both must have been taken)	EET 1310	Electronics I 3
	EET 1315	Electronics Lab I 1
	EET 1320	Electronics II 3
	EET 1325	Electronics Lab II 1
Introduction to Logic Circuits	EET 2310	Digital Electronics I 3
	EET 2315	Digital Electronics Lab I 1
Electromechanical Control (must have already had Basic Electricity)	EET 2550	Electrical Machinery 3
	EET 2555	Electrical Machinery Lab 1
Mechanical Print Reading	FST 2020	Blueprint Reading and Sketching 4
Safety, First Aid and Fire Prevention	FST 1030	Industrial Safety 3

Course Credits for Senior Instrument Mechanic Training Program

TVA's Senior Instrument Mechanic Training Program courses have been evaluated by the Engineering Technology faculty and are considered equivalent to the RSCC courses listed below:

<i>TVA Course</i>	<i>RSCC Course</i>	<i>Quarter Hours</i>
Passive Components and Networks		
Thyristors	EET 1010 Electric Circuits I	3
	EET 1015 Electric Circuits Lab I	1
Operational Amp, DC Coupled Amplifiers, Negative Feedback	EET 1330 Electronics III	3
	EET 1335 Electronics Lab III	1
Active Devices	EET 1610 Electrical System Design I	3
Test Equipment Familiarization	EET 2260 Electronic Troubleshooting	4
Boolean Algebra and Fundamental Circuit	EET 2310 Digital Electronics I	3
	EET 2315 Digital Electronics Lab I	1
Addition Circuits	EET 2320 Digital Electronics II	3
Multivibrators	EET 2325 Digital Electronics Lab II	1
Counter Techniques, Counter Register Circuit, Input-Output Devices, Digital to Analog (D/A) and Analog to Digital (A/D) Conversion		
Control Functions, Symbols and Analog Controls	EET 2510 Industrial Electronics and Control I	3
Clipping, Clamping, and Wave-Shaping	EET 2515 Industrial Electronics and Control Lab I	1
Introduction	MCT 1100 Introduction to Mini-Computers	3

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.

Generally, 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, but all transfer grades are included in computations for the determination of graduation honors.

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.

Advisement and information regarding inter-institutional articulation are available in the office of the Assistant Dean for Educational Services or the office of the Director of Admissions and Records.

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 Ad-

missions and Records at the time of the student's first registration. A maximum of 36 quarter hours credit for correspondence or extension courses, credit for Advanced Placement, CLEP, or CPS tests and/or credit resulting from military service may be counted toward a degree. All correspondence or extension work must have the written, 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 referenced 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 become a part of their resume for future education and work opportunities.

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

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 of his/her records under prescribed circumstances.

Copies of the institutional policy are located in the Library and in the Office of the Associate Dean of Student Affairs 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.

All requests for information from the Student Information System must be approved by the Assistant Dean of Educational Services.

REGISTRATION FOR COURSES

An applicant whose application for admission is received 21 days prior to the beginning of any given quarter will be sent by return mail a schedule of classes for that quarter. The schedule also contains registration information. Roane State holds early registration each quarter for the currently enrolled students. Dates are announced each quarter. New students and readmitted students register on the regular registration days published in the college catalog. Procedures specified at the time must be followed during all registration. No student is officially enrolled until he/she has completed all requirements of enrollment including the payment of fees. Registration after the regular catalog published date may be permitted for one calendar week following this date. Late registration requires payment of the late fee. No student shall receive credit for a course for which he/she is not properly registered. **NO STUDENT WILL BE ALLOWED TO REGISTER UNTIL ALL REQUIRED DATA HAVE BEEN RECEIVED BY THE OFFICE OF ADMISSIONS AND RECORDS.**

The average quarter hour load for a student should be 16 hours of credit per quarter. Individual programs may require more or less than 16 hours per quarter for degree completion. A full-time student is one who is carrying 12 or more quarter hours of credit. The following criteria apply to quarters by course loads:

1. Students with a 2.5 cumulative grade point average may register for up to 19 quarter hours of credit subject to verification of grade point average by the Director of Admissions and Records.
2. Students with a 3.0 cumulative grade point average may register for up to 21 hours of credit subject to verification of grade point average by the Director of Admissions and Records.
3. Students wishing to enroll for 22 hours or more must have the approval of the Assistant Dean for Educational Services.
4. Any exceptions to the above guidelines must have the approval of the Assistant Dean for Educational Services.

HANDICAPPED STUDENT SERVICES

Students who have a handicap requiring special services should contact the Coordinator of Admissions on the Oak Ridge campus or the Director of Admissions and Records on the main campus.

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. Present the completed form to the Business Office and pay appropriate fees.
3. Return two copies of the 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 in the student taking a course without receiving credit.

NOTE: Students enrolled in Remedial/Developmental courses will not be permitted to drop these courses unless extenuating circumstances exist. Approval must be granted by the Director of Developmental Studies.

REPEATED COURSES

A student may repeat a course with the intent of improving the grade previously earned. In computing the quality point average of a student who has repeated one or more courses, **only the last grade received in the repeated course or courses will be used**, and the hours attempted will be counted only once, provided that the number of repeats in any single course does not exceed two (three attempts). In the event that a student attempts a course more than **three times, the third and subsequent attempts shall be used in determining quality point average.**

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.

Students may be permitted to repeat a course in which a grade of "B" or higher was earned only with the approval of the Dean of the College.

COURSE SUBSTITUTIONS

Course substitutions require the approval of the student's advisor, the department head, and the Assistant Dean For Educational Services. 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.

PHYSICAL EDUCATION ACTIVITY COURSE EXEMPTION AND SUBSTITUTIONS

Physical education exemptions may be granted to students who are medically disabled. Such students must substitute a three-hour Health or Recreation class for the exempted activity classes. A physician's statement of such disability must be submitted prior to consideration of medical exemptions.

Students who have physical limitations may fulfill PE requirements by taking PED 1000, PED 1005 (Adaptive PE).

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.

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 overall quality point average of 2.00.

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

I	Incomplete
N	Audit, no grade or credit
P	Pass
R	Repeated
W	Withdrew
X	No grade reported

The grade "X" indicates that the instructor had no grade to report or that the instructor did not submit a grade in time for processing with other grades at the end of the quarter. The "X" carries no quality points and is not included in computing the grade point average.

The grade "I" indicates that the student was passing at the end of the quarter but has not completed 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. An "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 average will continue to reflect the "I" as a failing mark and will be interpreted as such.

At the discretion of the Dean of the College, 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 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.

If a student wishes to appeal a final grade in a course, he or she should discuss the matter first with the instructor of the course. If the issue cannot be resolved at that level, the student may take the problem to the appropriate department head and finally to the Dean of the College.

GRADUATION

All students must complete the general requirements as prescribed by the college and specific requirements set forth for the Associate Degree sought. See pp. 76-78 for General Degree Requirements and also appropriate program requirements for graduation. Each student must file an Intent 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 at the end of the Spring quarter, only. Students who anticipate completing their work during the current calendar year are eligible to participate in graduation exercises if: a grade point average is sufficient for graduation and an Intent to Graduate Form has been officially processed.

A student may complete requirements for more than one option within a degree program by successfully completing all course requirements. There is no additional fee for this, and no additional diplomas may be requisitioned.

Requirements for more than one degree may be met. A minimum of 24 credit hours beyond requirements for the first degree must be completed. The \$25.00 graduation fee must be paid for each separate degree, and a diploma may be requisitioned for each degree.

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, 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; however, credit resulting from military service or from tests such as Advanced Placement, the College Level Entrance Examination Program, or the Certified Professional Secretary will not be assigned quality points for computing the grade point average, and no letter grade will be assigned for this credit.

DEAN'S LIST

The Dean's List is the official medium for the institution to recognize outstanding academic achievement by students. Full-time students (those carrying 12 or more quarter hours) with a quality point average of 3.25-4.00 are identified quarterly on the Dean's List.

PROBATION AND RETENTION STANDARDS

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

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 Hours 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

NOTE: See pp. 37-39 for Allied Health, Mini-Microcomputer and Nursing Retention standards.

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. For the student who is suspended at the end of Spring Quarter, the following Fall Quarter is considered to be the term of suspension.

Each student who is placed on academic suspension will be notified by the Office of Admissions and Records. Any student has the right to appeal to the Admissions and Retentions Committee (composed of faculty, staff, and student representatives) for reinstatement. This appeal may apply to the quarter immediately following the suspension or the subsequent quarter. In any case, after suspension, the student must meet with the committee prior to further enrollment. A student appeal regarding suspension must be made through the Office of Admissions and Records. If the Admissions and Retentions Committee grants the reinstatement, the conditions of the reinstatement imposed by the committee must be clearly stated. These may include reduced course load, regular meetings with a college counselor and/or regular progress reports to an academic adviser.

The student who is suspended a third time, whether for consecutive quarters or following an interim successful quarter, will be dismissed.

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 p. 69 of catalog and p. 23 of the Student Handbook).

WITHDRAWALS AND HONORABLE DISMISSALS

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

1. Obtain Withdrawal Form from Admissions and Records Office to initiate withdrawal procedure.
2. Secure clearance from all college departments specified by the Office of Admissions and Records.
3. Take Withdrawal Form to Business Office for clearance.
4. Return white copy to Office of Admissions and Records for final withdrawal clearance.

After the drop deadline date, no student will be permitted to withdraw from the college or drop classes and receive the grade of "W" unless a student has documented proof of one of the following conditions and verification that the mitigating circumstances developed after the drop deadline:

1. Illness or injury problems as verified by the RSCC student health service, the attending physician or psychologist.
2. Serious personal problems as verified in writing by the student's spouse, parents, 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.

NOTE: Students enrolled in Remedial/Developmental Studies courses are not allowed to withdraw from these courses unless extenuating circumstances exist. Approval must be granted by the Director of Developmental Studies.

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 completed by 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 pp. 6-8. Withdrawal from or dropping of courses after this date must be approved by the Director of Admissions and Records. 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" will be recorded.

ENROLLMENT VERIFICATIONS

The Office of Admissions and Records cooperates with the Social Security Administration and with various lending agencies by certifying that student clients are enrolled at Roane State Community College.

BUSINESS INFORMATION

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 BOARD OF REGENTS OF THE STATE UNIVERSITY AND COMMUNITY COLLEGE SYSTEM OF TENNESSEE.

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 \$63.00 per quarter hour, not to exceed \$716.00 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 \$17.00 per quarter hour, not to exceed \$188.00 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 one-half of the credit hour rate per quarter hour, up to a maximum of \$30.00. Special fees (such as laboratory fees, graduation fees, student activity fees, campus access 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 age. Enrollment of disabled or elderly students will be made on a space available basis.

Fees must be paid at the regular rate for all Community Service courses.

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. For any student registering for any course(s) or adding any course(s) during the Summer Quarter, the assessment of course fees, late fees, and schedule change fees is determined by courses (if any) for which the student registered on or before the published registration date. The key to this determination is whether the student is registering for courses or adding courses. For this purpose the following definitions shall be used:

Registering for courses—A student registers for a course or courses only if he/she is not already enrolled in a course or courses meeting the same term or some concurrent term as the course(s) for which he/she is registering.

Adding courses—A student adds courses when he/she is already enrolled in a course or courses meeting in a term in which all or part of the term runs concurrently with the term in which the added course or courses meet.

OTHER FEES

Application Fee—Each student applying for admission to the college for the first time will be assessed a \$5.00 application fee. The fee is a one-time only fee, is not applicable to the maintenance fee, and is not refundable.

Campus Access Fee

1. Each student who registers for regular credit or non-credit classes on the main campus or at RSCC-Oak Ridge will be assessed a \$1.00 campus access fee each quarter. (Students registering for non-credit programs that meet for fewer than eight weeks, or fewer than eight clock hours, or for which fees are not charged will be issued a temporary parking permit but not assessed an access fee.)
2. Faculty and staff will be assessed an annual campus access fee of \$5.00. Persons who are employed Spring Quarter or after will be assessed a campus access fee of \$2.50.
3. All faculty, staff and students who pay the campus access fee will be given a parking decal. Additional decals will be available at the cost of \$1.00. The decal(s) issued will be valid from September 1 through August 31 of the following year.
4. All vehicles parked or operated by any person in connection with employment or attending regular classes of the college must be registered with the Office of the Associate Dean of Student Activities. All other persons on campus who are not short term visitors must have a temporary parking permit.

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 \$25.00 for each separate degree earned. This fee covers the diploma cost and other related costs. This fee must be paid at the beginning of the quarter in which a student is scheduled to graduate, and it is not refundable unless the student does not graduate and no college costs are incurred. There is no additional fee for completion of more than one option within a degree program. (No additional diplomas are requisitioned in these instances.)

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:

- 1 lesson per week \$30.00
- 2 lessons per week \$50.00

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 liability insurance fee will be required for students in the health occupation programs. The liability insurance will be purchased at a reduced group rate. This fee is not refundable.

Lock or Key Replacement Fee—\$3.00

Miscellaneous Fee—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 and for some courses requiring special materials. Refunds are based on the Regular Session Refund Policy described below.

Returned Check Fee—A fee of \$10.00 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—A student activity fee of \$1.00 per quarter will be assessed for each credit student enrolled in classes at Roane State-Harriman and Roane State-Oak Ridge. This fee was adopted by the Student Government Association to provide funds for a variety of student activities. Refunds are based on the Regular Session Refund Policy described below.

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 for the period between official registration and the beginning of classes or for a period of 14 calendar days beginning with and inclusive of the first official day of classes or within an equivalent period for a short term course.

25% of fees will be refunded following expiration of the 75% period, for a period of time extending 25% of the time covered by the term. No refunds will be made beyond the 25% period.

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% of fees will be refunded 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 an activity that has fewer than 10 contact hours.

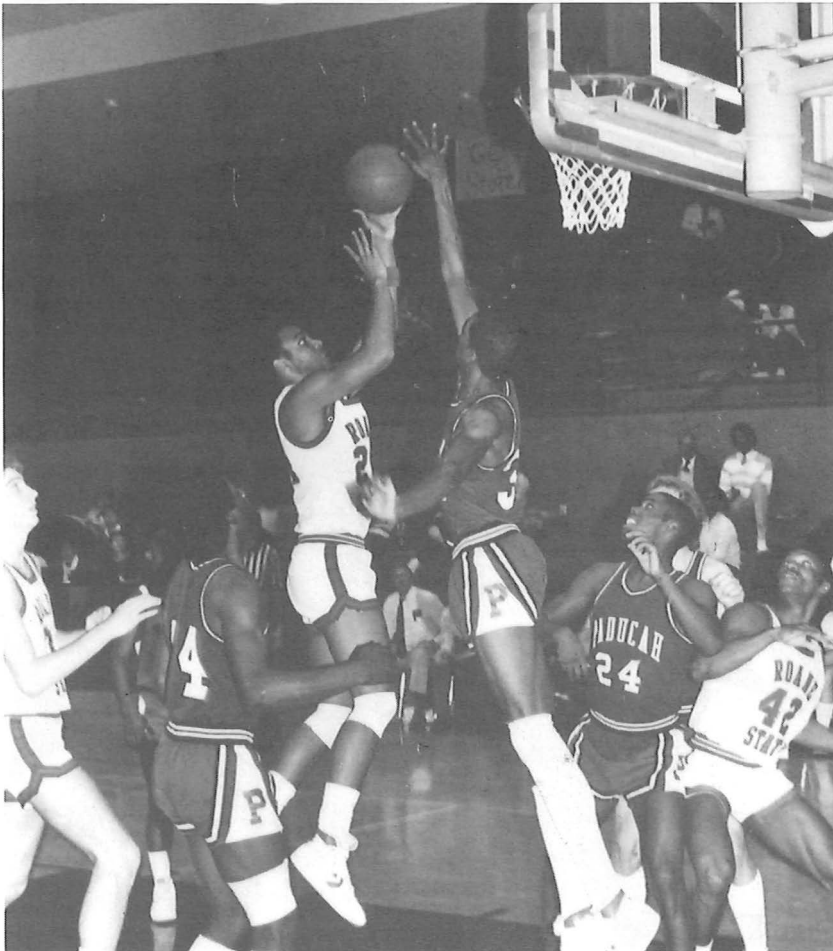
General Refund Policy—No refund is due on courses which are dropped unless the sum of the remaining hours calculated at the hourly rate is less than the total amount paid for tuition and/or maintenance fees.

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 three to four weeks after classes begin.

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 \$60-\$100 per quarter. 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 a Roane State Community College ID card.



RSCC Raiders vs. Paducah Community College at Regional Tournament



Joey Williams signs with RSCC Raiders



RSCC Celebration Singers, 1984-85

**SCHOLARSHIPS,
FINANCIAL AID,
VETERANS
AFFAIRS**

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.

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, the Family Financial Statement of the American College Testing Program, or the Pell Grant Application. These 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 Pell Grant. A student must be fully admitted to college before aid will be awarded although students may participate in the College Work-Study Program during the summer prior to the following fall quarter.

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

SCHOLARSHIPS

State Board Work-Study Scholarships are authorized by the Board of Regents, the governing body of the State University and Community College System of Tennessee. These scholarships, in the amount of maintenance fees for the academic year plus \$100 per quarter for books, are awarded on the basis of academic achievement. Students ranking in the upper 5% of their high school graduating class will be given priority in the awarding of these scholarships. Recipients must maintain a grade point average of 2.8 to remain eligible for renewal.

The State Board Scholarship recipients are required to work approximately 180 hours per academic year. An effort is made to give recipients work assignments related to their academic interests. Residents of the State of Tennessee who believe they are qualified should submit the Roane State Financial Aid application after the first semester of their senior year in high school and before the following May 1.

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, or the Executive Director of the Roane State Foundation.

Following is a list which shows a variety of private and special interest scholarships established for RSCC students:

American Business Women's Association
Annakusa Junior Woman's League
Bernard
C.R. Black
Roy E. Bowen Memorial (Xi Beta Beta)
Clarice Bunch

Robert Cuthbert, Jr., Memorial
 Delta Kappa Gamma Scholarship—NU Chapter
 John R. Dillon Memorial
 Elks Club of Oak Ridge
 Harriman Business and Professional Women's Club
 Harriman City Hospital
 Harriman Kiwanis Club
 Harriman Rotary Club
 Kayser-Roth
 Kingston Business and Professional Women's Club
 Kingston Jaycees
 Kingston Lions Club
 Milsap Memorial (Loudon County High School)
 Gerald Moore
 Oak Ridge Business and Professional Women's Club
 Olinger Foundation
 Phil Resseguie-Dr. Harold Byck Memorial
 Roane Choral Society
 Roane County Home Demonstration Council
 Roane County Retired Teacher Association
 Roane County Education Association
 Roane State Community College Foundation
 Rockwood Business and Professional Women's Club
 S.T.A.R.
 Tennessee Gamma Chapter of Alpha Delta Kappa Scholarship

ATHLETIC SCHOLARSHIPS

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

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 5% annual interest begins 6 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.

GUARANTEED 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 8% simple interest for first time borrowers, begins 6 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.

Special arrangements have been made for GSL applicants who are unable to obtain loans from local lenders. This information is available in the Financial Aid Office.

PELL 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 \$100 and \$1,000 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 having financial need, who would not, except for the grant, be financially able to attend college.

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 three years of undergraduate study provided the student continues to make satisfactory academic progress.

TENNESSEE STUDENT ASSISTANCE AWARD

In 1971, the Tennessee Student Assistance Corporation was created to administer the Tennessee Student Assistance Program. Under this program, Tennessee residents who need financial assistance may receive a grant to cover a portion of 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
B-3 Capitol Towers
Suite 9
Nashville, TN 37219

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 forms 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 equivalency diploma should contact the Director of Veterans Affairs for help in planning a program of study and 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

or
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. Veterans and other eligible persons may 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, do not qualify. 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 their 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 under Probation and Retention Standards in this catalog.

Courses for which the veteran and other eligible persons have received a passing grade, either at Roane State or a transfer 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 forms must be processed and approved as described in this catalog before the substituted course is claimed for payment.

Veterans and other eligible persons, with the exception of the children of veterans, can receive pay for deficiency classes when a need can be shown. The pay received is taken from the total entitlement.

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 in attending the course, providing 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.

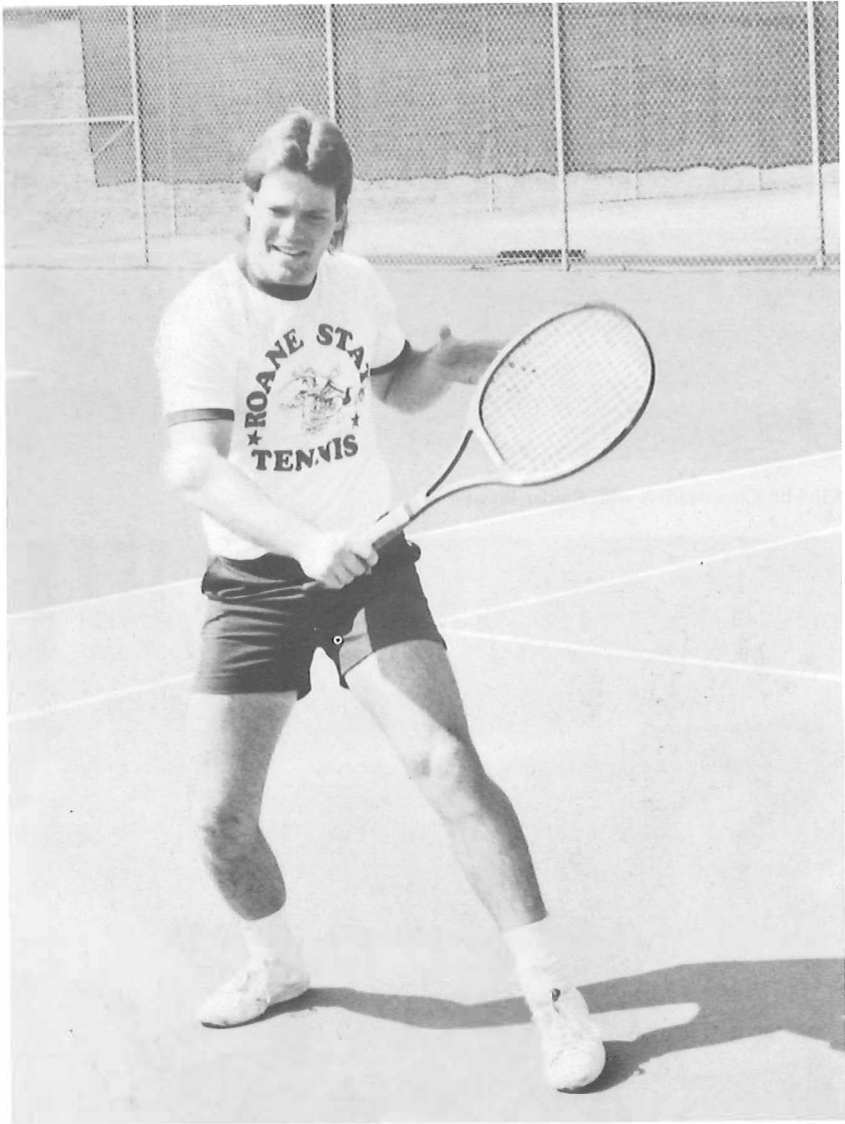
Further information is available at the Veterans Affairs Office.



1985 Spring Fling and James Rodgers in concert



Alex Haley, author of *Roots*, signs autographs during a visit to the Museum of Appalachia in Norris. Haley spoke to a Roane State Community College class about his latest project, a historical novel set in Southern Appalachia.





1984-85 Cheerleaders with Raider Rooster



Celebration! SGA Barbeque

STUDENT SERVICES AND ACTIVITIES



Leslie Anderson, Pam O'Donnell

STUDENT SERVICES

ORIENTATION FOR STUDENTS

All new students meet before Registration for Fall Quarter for an orientation program. One purpose of orientation is to introduce students to administrative officers and student leaders. Another purpose is to help acquaint students with the campus and facilities. The orientation activities are coordinated by the Office of Admissions and Records, Counseling Services, and the Education Department and are executed with the assistance of faculty members and Student Government personnel. In addition to this orientation, all first time, full time students who take a majority of their courses on the Harriman and/or Oak Ridge campuses are required to take Education 1000, Orientation to College, during their first quarter at Roane State.

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 test center. 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 at the college entitled GED Preparation for High School Equivalency.

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.

HEALTH SERVICES

The health and safety of students are concerns of the Student Affairs Office. A completed Health History Form is required for all students enrolled at the Harriman and Oak Ridge Campuses. 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 and to offer suggested referrals when needed. Health consultations and a variety of health programs are offered through the clinic.

Since the college does not collect a health fee, each student is responsible for his/her medical bills for services rendered by private physicians/other facilities. Application and claim forms for the student accident and sickness insurance plan may be obtained in the clinic.

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 while enroute between home and school prior to the opening of school.

Application and claim forms may be obtained in the Student Affairs Office.

TRAFFIC REGULATIONS

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 Student Affairs.

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 available rental housing. As a service to students, the Office of Community Relations maintains a bulletin board of current rental listings as well as an information exchange for students seeking roommates. Students, however, are responsible for making arrangements to rent these facilities from owners or their agents. The bulletin board is located at the end of the first floor hallway, main classroom building, Harriman Campus. Additional information and forms for use on the board may be obtained in the Office of Community Relations.

Students are required to register local addresses in the Office of Admissions and Records for location purposes. Any change of address must be reported to the Office of Admissions and Records.

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.

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.

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

ORGANIZATIONS AND BOARDS

CELEBRATION SINGERS—A group consisting of singers, dancers, and musicians. Members are selected by the Music Department through audition. Open to all students.

CHEERLEADERS—The goal of the RSCC Cheerleading Squad is to promote spirit, enthusiasm, and support for the athletic department's basketball teams. Membership is open to

both males and females, and members are chosen for the coming season during spring quarter tryouts.

CIRCA—The college news magazine is 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.

ROANE STATE/OAK RIDGE STUDENT ADVISORY COMMITTEE—The RSOR Student Advisory Committee provides students an opportunity for involvement in the management of the Oak Ridge site. The group consists of campus student government representatives, representatives of student organizations, and the student body at large.

THE ROANE STATE SINGERS—This chorus is the official college-sponsored choral organization. It performs a repertoire of standard choral selections at various college, public school, church, civic, and community functions.

STUDENT ACTIVITIES FEE BOARD—The Fee Board is composed of five voting members and is presided over by the SGA President. The Fee Board makes decisions on proposals for the funds generated by the \$1.00 Activities Fee that students pay quarterly. Any RSCC student, department, club, organization, or committee is eligible to request these funds. The President of the college has final authority on all matters dealing with allocations of Fee Board funds. Elections for the Student Activities Fee Board are held simultaneously with the SGA Senate elections in Fall Quarter.

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

CLUBS AND SPECIAL INTEREST ORGANIZATIONS

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 interest of RSCC, its students, faculty, administration, friends, and alumni.

AUDIO-VISUAL CLUB—The Audio-Visual Club promotes student participation in video productions of college activities and special projects.

BLACK STUDENT ORGANIZATION—The purpose of this organization is to sponsor activities for the improvement of campus life for black students; to assist in the development of the black student on academic, cultural, and social levels; and to serve as a catalyst to motivate the black student's self-development and self-esteem during his/her educational career at Roane State Community College.

BSU—The Baptist Student Union 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.

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.

COMPUTER CLUB—The purpose of the Computer Club is to foster learning and experimentation in computer science beyond that covered in the classroom and also to facilitate social gatherings of those interested in computing.

CONCESSIONS CLUB—The Concessions Club promotes Roane State and its athletic program through the sale of concession items at home athletic events and special college programs.

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.

HISTORY CLUB—The purpose of the History Club is to promote a general interest in and appreciation for all areas of history.

JOURNALISM CLUB—The Journalism Club offers opportunities for student journalists and other students interested in writing and/or the mass media to develop their interests and abilities through meetings and seminars, encouraging participation in student publications, developing and participating in field trips and appropriate conferences and meetings, arranging for guest lecturers and speakers to visit Roane State, and providing service functions and activities as they develop.

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.

NURSING STUDENTS CLUB—The objectives for the Nursing Students Club are to promote participation in national and state nursing organizations, to increase visibility of the RSCC Nursing Program, and to allow organized participation of fund-raising activities.

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.

PLAYMAKERS—The Playmakers Club is responsible for producing plays on the Roane State campus.

RESPIRATORY THERAPY STUDENT ASSOCIATION—The Respiratory Therapy Student Association has been formed to better the allied health program at RSCC and in the community. The club is affiliated with the Tennessee Society for Respiratory Therapy.

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. It is affiliated with Rotary International.

S.T.A.R.S.—The S.T.A.R.S. Art Club provides a social bond for students and staff with the common interest of art; provides a vehicle for learning experiences in art outside the classroom through programs and field trips; provides students with ready opportunities to exhibit their work, to learn about the technicalities of the exhibiting process, to raise scholarship funds for art students, and to hold competitions designed to distribute those funds; provides art-related services to the community on a limited basis; and raises the art consciousness of the college and community by bringing quality work to the campus.

WOMEN STUDENT ORGANIZATION—The WSO increases women's awareness regarding opportunities available to them at Roane State while fostering a better understanding and appreciation on the part of the administration of the needs of women students at the college. In addition, the organization provides materials and programs to inform women students of: 1) continuing education, 2) career planning, 3) financial aid, and 4) personal growth opportunities, as well as, offering personal support and guidance for current and prospective students.

INTRAMURALS

A diverse program of activities provides 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 ability is not considered as important as the desire to enter into the 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.

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

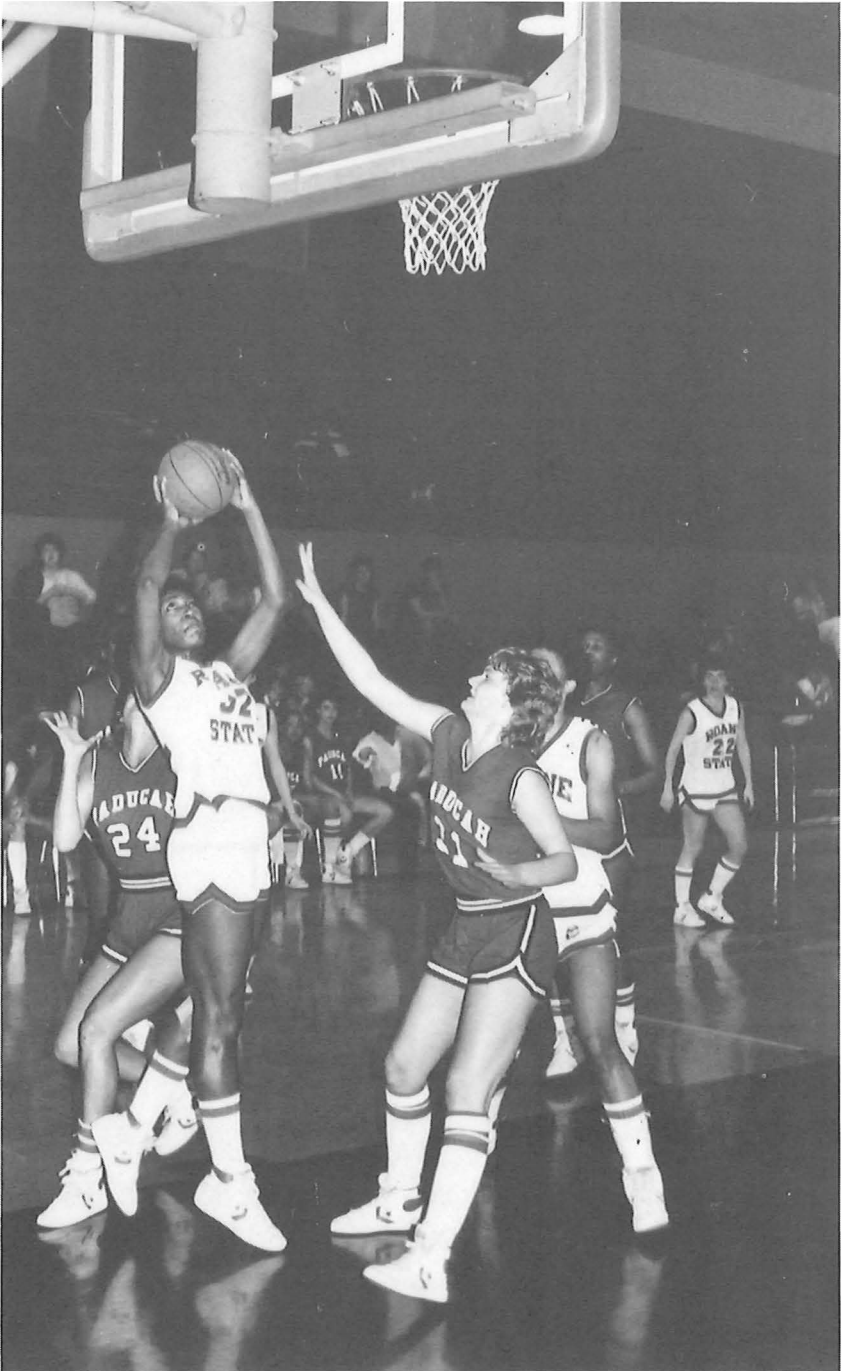
ATHLETICS

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

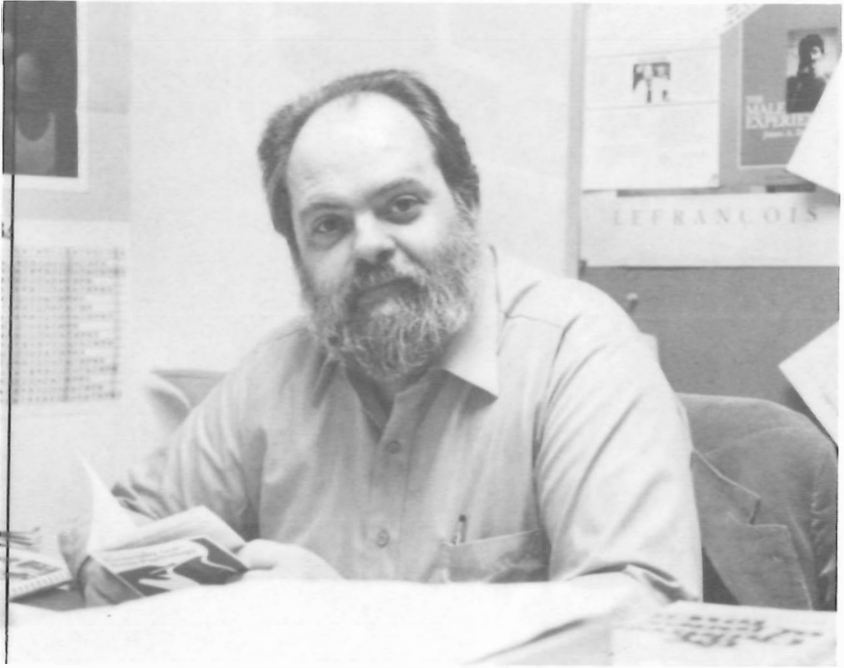
In order for a student to participate in athletics, eligibility requirements of the National Junior College Athletic Association must be met. Any inquiries about athletics should be directed to the Department of Athletics located in the gymnasium.

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

Varsity cheerleading is open to both male and female full-time students. The election to the squad is accomplished through a series of tryouts and interviews, held each spring. In addition, a student must meet academic eligibility requirements to participate. Information regarding tryouts and practices is posted in the Student Center as well as distributed to local high schools.



1984-85 Raiderettes vs. Paducah Community College at Regional Tournament



Dr. James Doyle, Head of Social Science Department



RSCC cooperative program to train and upgrade workers at EG&G Ortec

ACADEMIC INFORMATION



PLANNING AN EDUCATIONAL PROGRAM

Students who are entering college for the first time and who wish to accumulate degree credit at Roane State must establish eligibility to enroll in college level classes. Students under age 21 must score 16 or higher on each sub-test of the ACT. Students under 21 who have **any** sub-test score lower than 16 must undergo placement assessment and enroll in the classes indicated by results of the assessment. Students over the age of 21 must undergo placement assessment and enroll in the classes indicated by results of the assessment.

All first-time, full-time students who take a majority of their courses at the Harriman Campus and/or the Oak Ridge Campus are required to take EDU 1000, Orientation to College, during their first quarter at Roane State.

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. Students who are planning to transfer from Roane State to a four-year institution at the conclusion of two years' work should secure a copy of that institution's catalog to use in planning their transfer program. Final responsibility for direct planning of courses and every preparation necessary to graduate from RSCC or to transfer to other colleges and universities rests with the student.

ATTENDANCE REGULATIONS

1. Attendance of classes and other official appointments is expected.
2. 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 formally drop a course (see page 48) or to withdraw from the college (see page 51) must be followed. THESE PROCEDURES MAY PREVENT AN UN-DESIRED "F" ON A STUDENT'S TRANSCRIPT.

DEGREE REQUIREMENTS

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 an approved program of study in which the prescribed program requires less than is necessary for completion of an Associate Degree.

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

1. Not less than 99 quarter hours of credit.
2. A minimum of 36 of the final 48 quarter hours of course work completed in residence at Roane State Community College.
3. A minimum overall 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 RSCC courses 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 the College.)

Students will be required to take ACT Comp and program tests designed to measure general education achievement and/or achievement in selected major areas as a prerequisite to graduation, for the purpose of evaluation of academic programs. Unless otherwise required for an individual program, no minimum score or level of achievement is required for graduation. Participation in testing will be required for all students, for students in selected programs, and for students selected on a sample basis.

RSCC GENERAL EDUCATION STATEMENT AND CORE CURRICULA

RSCC has established two core curricula to provide flexibility for general education (transfer) students and career education (vocational) students. The general (transfer education) core curriculum is for students planning to transfer to senior insitutions immediately

upon graduation from RSCC. The career (vocational education) core curriculum is primarily for students planning for employment upon graduation. Both programs are accessible for students who are already employed in the world of work and who desire to enhance, enrich, increase and/or redirect their professional, vocational skills. The RSCC low fees and open door admissions policies make education available to all community residents desiring higher education for general and vocational education pursuits. Both programs seek to prepare students for a world of uncertainty and accelerating change.

GENERAL EDUCATION STATEMENT FOR TRANSFER PROGRAMS

The general education core curriculum for transfers seeks to stimulate students to the acquisition of general knowledge, the achievement of basic skill competencies and preparation for advanced educational work. RSCC provides an informal, intellectual environment to develop attitudes for learning and intellectual work including familiarity with current research and problem solving methods, desire and ability for self-directed learning and effective expression, ability to synthesize knowledge from many sources, and critical examination of new ideas and ways of thinking. An institutional environment of intellectual openness and close association with faculty and administration assists students in developing skills for identifying and achieving personal goals.

The general education core includes exposure to and increased appreciation of the humanities, arts and sciences to the end that students will develop a perspective of themselves as a part of the evolving world culture as it has been, is and will be. The general education curriculum is designed to help the student establish, simultaneously, a lifetime attitude of responsibility for personal and societal contribution and a personal search for truth. The objectives of the general education core for transfers are:

1. To prepare students for advanced standing in senior colleges and universities after successfully pursuing a Roane State Community College program.
2. To prepare students for entrance to certain professional schools which require one or two years of college experience prior to admission.
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.

GENERAL EDUCATION CORE CURRICULUM FOR TRANSFER STUDENTS

Area of Study	Minimum Quarter Hours Required
American History.....	9
Computer Literacy ¹	3
English Composition ²	9
Humanities (To include 6 hours of literature).....	12
Mathematics ³	3
Natural/Physical Science ⁴	12
Orientation to College ⁵	1
Physical Education Activities ⁶	3

¹Beginning Fall Quarter 1984, all students studying for an Associate Degree in a transfer program will be required to successfully complete a course in computer literacy. Students who are computer literate upon entering RSCC may substitute a higher level computer course.

²Students are required to be enrolled in composition courses until the required sequence is completed.

³Students planning to pursue a Bachelor of Science degree should take MAT 1110. Effective with the academic year 1984-85, the one mathematics course stipulated by this policy must carry high school prerequisites of either two units of algebra or one unit of algebra and one unit of geometry. Course descriptions and syllabi of mathematics courses meeting this degree requirement must reflect these high school prerequisites. It is understood that SBR institutions may have to carry courses with preparatory components if a student's high school preparation— either in quantity or quality— is insufficient to enroll in a course with these stipulated prerequisites. The three-hour mathematics requirement for transfer programs may not be fulfilled by mathematics courses not designed for transfer.

⁴If not specified in options selected, student may choose any science sequence. Requirement must be met from the same sequence.

⁵Required of all first-time, full-time students who take a majority of courses at the Harriman or Oak Ridge campuses.

⁶Students 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.

GENERAL EDUCATION STATEMENT FOR CAREER PROGRAMS

The general education core curriculum for career students includes a general education core to achieve a basic understanding of the humanities, arts and sciences as set forth above. This curriculum addresses the need of all persons for effective written and verbal expression. Rather than a preparation for transfer, this requirement is to establish an understanding of vocation as a part of the changing world culture and to alert the student to the idea that world cultural change insists, at times, on readiness for vocational change. The general education core objectives for career and vocational education are:

1. 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.
2. To prepare students to enter technical areas of work which require additional education beyond high school.

GENERAL EDUCATION CORE CURRICULUM FOR CAREER STUDENTS

Areas of Study	Minimum Quarter Hours Required
Computer Literacy ¹	3
ENG 1010 (Composition).....	3
NSC 1220 or Mathematics	3
Orientation to College ²	1
Physical Education Activities ³	3
Social Science Electives.....	6
Speech Elective.....	3
Other courses from the division of Arts and Sciences	6
(Career Education students must complete 25% of coursework in general education from the division of Arts and Sciences.)	

¹Beginning Fall Quarter 1984, all students studying for an Associate Degree in a career program will be required to successfully complete a course in computer literacy. Students who are computer literate upon entering RSCC may substitute a higher level computer course.

²Required of all first-time, full-time students who take a majority of courses at the Harriman or Oak Ridge campuses.

³Students 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.

Both the transfer and career general education core curricula are flexible and allow the "undecided major" student to change course objectives and to redirect his/her academic pursuits without undue penalty. The minimum course completion requirements for graduation in a particular transfer or career program are summarized in the Degree Programs section of the catalog.

EVENING COURSES

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.

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 convenient and suitable times for their needs. Roane State Community College believes that the resulting association of older students from backgrounds of work and life experience, and younger, 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 with 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.

COOPERATIVE EDUCATION PROGRAM

The Cooperative Education program provides a balanced education using classroom theory in real employment situations. Cooperative Education programs bring business, industry and government into direct cooperation with students and educators where employment is considered to be a regular, continuing and essential element in the education process. The length of cooperative education employment varies from one to six quarters and must be in a job related to the student's academic major or in a career area that the student is exploring. In addition, Roane State participates through consortium agreements with senior institutions. Roane State students who intend to transfer to a senior institution may be placed on a co-op work experience arranged by the senior college.

Students wishing to participate in the cooperative education program must make application to the Coordinator of Cooperative Education. After the application is reviewed, both the Coordinator of Cooperative Education and the academic department in which the student is enrolled or exploring must approve and supervise the cooperative work experience.

DEVELOPMENTAL STUDIES LABORATORIES

The Developmental Studies laboratories are available to provide an opportunity for under-prepared students in mathematics, English, reading, study skills, and science areas to improve skills so that they may succeed in college level courses. Classes are taught each quarter or students may work in the lab individually on specified problems. The Developmental Studies laboratories offer personalized instruction utilizing the latest audio-visual equipment including tape players, slide viewers, film strip and film loop viewers and computer-assisted instruction. The labs are open every day and some evenings each quarter.

THE WRITING CENTER

The Writing Center, established to provide opportunities for improvement of writing across the curriculum, is available to all students who need and want help to improve the quality of their writing. This service is provided for assistance with writing for any course, regardless of the discipline, at both the Harriman and Oak Ridge campuses.

HONORS PROGRAM

Effective Fall Quarter, 1985, an Honors Program of study will be available at Roane State. This program seeks to provide the superior student with intellectual opportunities beyond the scope generally found in regular classes. Small class size will allow direct and personal contact with qualified faculty members who, in turn, hope to challenge and stimulate the student to a deeper understanding of the concepts and material presented in the course.

Acceptance into honors courses is based on a combination of high school performance, ACT scores, and personal interview. Students whose composite ACT score is 24 or above and who are interested in being invited to participate in the Honors Program are urged to contact the Director of the Honors Program at Roane State.

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, 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. 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.

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, for compliance 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.

CENTER FOR BUSINESS AND PROFESSIONAL PROGRAMS (CBPP)

The Center for Business and Professional Programs serves the needs of business, industrial and professional organizations by assisting with employee development. The Center provides specific services such as needs assessments, workshops, seminars, training sessions and special short courses. Programs may be offered on campus, in-plant or at the business site or a neutral site.

All inquiries in the area of community service non-credit courses should be directed to:
Assistant Dean of Continuing Education
Roane State Community College
Harriman, Tennessee 37748

RSCC/LEAD INSTITUTION

RSCC, designated a Lead Institution by the Tennessee State Board of Regents, is charged with the responsibility of overseeing the development of a cohesive plan for the delivery of post-secondary vocational, technical and career programs and with support services for area vocational technical schools in an eight-county area including Anderson, Campbell, Cumberland, Fentress, Loudon, Morgan, Roane and Scott Counties.

Roane State is responsible for providing support for the delivery of the following services: occupational and academic diagnostic services, developmental education (basic skills), job/vocational education and occupational training, special business and industry training, sub-baccalaureate or non-collegiate technical education, job placement and counseling, transfer for community college, and continuing education and community service.

RSCC, also, provides administrative support services for accounting and budgeting, purchasing, personnel, student records, financial aid, institutional research, and public relations for state, post-secondary, area vocational schools.

JOB TRAINING PARTNERSHIP ACT

Roane State Community College is the fiscal agent for the area Private Industry Council which is a cooperative employee/employer training and assistance program of the Job Training Partnership Act (JTPA). JTPA is a federally mandated, cooperative effort on the part of business and industry, education, labor, and government operated on a state-wide basis by the Tennessee Department of Labor. RSCC, area vocational technical schools, and technical institutes in the seven county area are involved through the Tennessee State Board of Regents to serve as partners by providing training programs as they are needed.

DIVISIONS AND DEPARTMENTS OF INSTRUCTION
ARTS AND SCIENCES

Education/Developmental Studies

Developmental Studies I
Developmental Studies II
Education
Reading
Remedial Studies

**Health, Physical Education
and Recreation**

Health
Physical Education
Recreation

Humanities

Art
English
Foreign Languages
Journalism
Music
Philosophy
Speech

Mathematics and Sciences

Biology
Chemistry
Computer Science
Geology
Fire Science
Mathematics
Natural Science
Physics

Social and Behavioral Sciences

Geography
History
Political Science
Psychology
Sociology

CAREER EDUCATION

Allied Health and Nursing

Health Physics Technology
Medical Laboratory Technology
Medical Record Technology
Nursing
Physical Therapy Assistant
Radiologic Technology
Respiratory Therapy Technology

Business

Business
Computer Science
Office Administration

Technology

Engineering Technology
Electrical/Electronics Option
Fire Science Technology
Quality Assurance Technology
Robotics Technology (CSTCC)
Mini/Microcomputer Technology
Mining Technology
Police Science Technology

SUMMARY OF TRANSFER PROGRAM OFFERINGS

College transfer curricula 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 for use in planning his/her transfer program.

Major	Option Within Major	Degree
General	Art	AA
General	General	AA
General	Music	AA
General	Social Science	AA
General	Art	AS
General	Art Education	AS
General	Biology	AS
General	Business Administration	AS
General	Business Education	AS
General	Computer Science	AS
General	Early Childhood Education	AS
General	Elementary Education	AS
General	Fire Science	AS
General	General	AS
General	Health, Physical Education and Recreation	AS
General	Mathematics or Physical Science	AS
General	Music	AS
General	Music Education	AS
General	Pre-Engineering	AS
General	Pre-Med, Pre-Dentistry, Pre-Pharmacy	AS
General	Pre-Nursing	AS
General	Secondary Education	AS
General	Social Science	AS
General	Special Education	AS
General	Technology	AS

SUMMARY OF CAREER EDUCATION PROGRAMS

The career education programs at Roane State 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.

Major	Option Within Major	Degree
Allied Health	Health Physics Technology.....	AS
	Medical Laboratory Technology.....	AS
	Medical Record Technology	AS
	Physical Therapy Assistant.....	AS
	Radiologic Technology	AS
	Respiratory Therapy Technology.....	AS
Business Management Technology	Accounting.....	AS
	Banking.....	AS
	Computer Science:	
	Business Emphasis.....	AS
	General Business.....	AS
	Insurance	AS
	Management and Supervision.....	AS
	Savings Association.....	AS
	Small Business	AS
	Surface Mine.....	AS
Engineering Technology	Electrical/Electronics Technology	AS
	Fire Science Technology	AS
	Quality Assurance Technology	AS
	Robotics Technology ¹	AS
Mining Technology	Deep Mine.....	AS
	Surface Mine.....	AS
Mini/Microcomputer Technology	.....	AS
Nursing	.....	AS
Office Administration	Executive Secretary	AS
	General Clerical.....	AS
	Medical Secretary	AS
	Word Processing Option	AS
Police Science	Corrections	AS
	Police Science.....	AS
Secretarial Science	.....	Certificate

¹Offered through a collaborative agreement between RSCC and Chattanooga State Technical Community College.

DEGREE PROGRAMS



This section contains summaries of each degree and certificate program offered by Roane State Community College, listing required courses and the quarters in which they should be scheduled so that the programs may be completed in a timely and efficient manner. Although students may choose to be self-advised, it is to the student's advantage to work with an advisor from the appropriate department (see page 82) in planning a program of study.

TRANSFER EDUCATION PROGRAMS

Transfer programs are designed primarily for students who wish to transfer to a four-year institution and complete a baccalaureate degree. These students should secure a copy of the catalog of the institution to which they plan to transfer and use it in planning their course of study at Roane State. The Associate of Arts General and Associate of Science General transfer degree programs all contain a general education core group of courses to which courses of subject area specialization are added to complete one of the following options.

ART OPTION

The art curriculum is designed primarily for the general enrichment of the student as well as providing professional art and liberal art 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		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
ART 1110,20,30	Basic Studio I, II, III	3	3	3			
ART 2010,20,30	Art History Survey I, II, III				3	3	3
CST 1030	Computer Literacy ¹			3			
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
HIS 2110,20,30	Survey of American History I, II, III				3	3	3
SPE 2410	Basic Speech Communication						3
	Art Electives		3	3	3	3	
	Electives ²	3	3		3	3	3
	Mathematics				3		
	Physical Education Activities		1	1		1	
	Physical/Natural Science	4	4	4			
	Social Science Electives	3			3		
	Sophomore English					3	3
	TOTAL CREDIT HOURS—100	17	17	17	18	16	15

¹Any CST course of a higher level may be substituted for CST 1030.

²To include nine hours of foreign language for an Associate of Arts Degree.

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		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
ART 1110,20,30	Basic Studio, I, II, III	3	3	3			
ART 2010,20,30	Art History Survey I, II, III				3	3	3
CST 1030	Computer Literacy ¹						3
EDU 1000	Orientation to College	1					
EDU 2010	Introduction to Education	3					
EDU 2210	Educational Psychology				3		
EDU 2410	Human Growth and Development				3		
EDU 2910	Prospective Teacher Cooperative Practicum I					3	
ENG 1010,20,30	Composition I, II, III	3	3	3			
HEA 2210	Personal Health			3			
HIS 2110,20,30	Survey of American History I, II, III				3	3	3
MAT 2310,20	Concepts of Mathematics I, II	3	3				
PSY 1010	General Psychology I		3				
SPE 2410	Basic Speech Communication				3		
	Art Electives			3		3	
	Health or PED Elective						3
	Physical Education Activities	1	1	1			
	Physical/Natural Science	4	4	4			
	Sophomore English				3	3	3
	TOTAL CREDIT HOURS—100	18	17	17	18	15	15

¹Any CST course of a higher level may be substituted for CST 1030.

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 HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BIO 1110,20,30	General Biology I, II, III ¹	4	4	4			
BIO 2610	Genetics				4		
BIO 2620	Cell Biology					4	
BIO 2630	Ecology						4
CHE 1110,20,30	General Chemistry I, II, III				4	4	4
CST 1030	Computer Literacy ²						3
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
HIS 2110,20,30	Survey of American History I, II, III		3	3	3		
MAT 1110,20,30	Introduction to Analysis I, II, III	3	3	3			
SPE 2410	Basic Speech Communication		3				
	Electives ³		3	3	3	3	
	Humanities Electives						3
	Physical Education Activities	1	1	1			
	Social Science Electives					3	3
	Sophomore English				3	3	
	TOTAL CREDIT HOURS—100	15	17	17	17	17	17

¹Students with at least two years of high school biology or satisfactory ACT scores may, with permission from the Math-Science division, omit BIO 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.

²Any CST course of higher level may be substituted for CST 1030.

³Recommended electives might include additional biology, 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		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BUS 1010	Introduction to Business	3					
BUS 2210,20,30	Principles of Accounting I, II, III ¹				3	3	3
CST 2210	FORTRAN Programming					4	
ECO 2010,20,30	Principles of Economics I, II, III				3	3	3
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
HIS 2110,20,30	Survey of American History I, II, III				3	3	3
MAT 1110,20,30	Introduction to Analysis I, II, III ²	3	3	3			
MAT 2550	Probability and Statistics						3
PSY 1010,20	General Psychology I, II	3	3				
SOC 2010	Introduction to Sociology			3			
SPE 2410	Basic Speech Communications Electives ³		3			6	
	Humanities Electives			3			3
	Physical Education Activities	1	1	1			
	Physical/Natural Science	4	4	4			
	Sophomore English				3	3	
TOTAL CREDIT HOURS—101		18	17	17	18	16	15

¹BUS 2250 may be substituted for BUS 2230.

²Or MAT 2610, 20.

³Recommended electives: BUS 2510, BUS 2520.

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 office administration or teaching business education.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BIO 1110,20,30	General Biology I, II, III	4	4	4			
BUS 1010	Introduction to Business					3	
BUS 2210,20,30	Principles of Accounting I, II, III ¹				3	3	3
CST 1030	Computer Literacy ²						3
ECO 2010,20,30	Principles of Economics I, II, III				3	3	3
EDU 1000	Orientation to College	1					
EDU 2010	Introduction to Education	3					
EDU 2210	Educational Psychology		3				
EDU 2910	Prospective Teacher Cooperative Practicum I				3		
ENG 1010,20,30	Composition I, II, III	3	3	3			
HIS 2110,20,30	Survey of American History I, II, III	3	3	3			
MAT 1110,20	Introduction to Analysis I, II				3	3	
OAD 1010,20,30	Typing I, II, III	3	3	3			
OAD 1110,20,30	Shorthand I, II, III ³	5	5	5			
OAD 2110	Shorthand Transcription ³				3		
OAD 2140	Word/Information Processing						3
PSY 1010	General Psychology			3			
SPE 2410	Basic Speech Communication						3
	Physical Education Activities	1	1	1			
	Sophomore English				3	3	3
TOTAL CREDIT HOURS—100 (118) ³		18	17	17	15	15	18
		(23)	(22)	(22)	(18)		

¹BUS 2250 may be substituted for BUS 2230.

²Any CST course of a higher level may be substituted for CST 1030.

³Taken only if student wishes to be certified in shorthand.

COMPUTER SCIENCE OPTION

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
ENG 2110,20	World Literature I, II*				3	3	
HIS 2110,20,30	Survey of American History I, II, III	3	3	3			
MAT 2610,20,30	Calculus and Analytical Geometry I, II, III	5	5	5			
SPE 2410	Basic Speech Communication					3	
	Physical Education Activities	1	1	1			
	Computer Science Electives*	6	3	7	8	4	4
	Electives				3		3
	Humanities Electives					3	3
	Physical Science Electives				4	4	4
	Mathematics Elective**						3
	TOTAL CREDIT HOURS—105	19	15	19	18	17	17

*Computer Science Electives:

- CST 1040 BASIC Programming
- CST 1050 Introduction to Computers
- CST 2110 Introduction to Structured Programming
- CST 2120 Intermediate Structured Programming
- CST 2210 FORTRAN Programming
- CST 2220 COBOL Programming
- CST 2710 Discrete Structures
- CST 2630 Advanced Programming Techniques
- CST 2820 Machine Organization and Assembly Language Programming

**MAT 2650 Linear Algebra is strongly recommended.

*Or ENG 2140, 2160, American Literature I, II.

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		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BIO 1110,20,30	General Biology I, II, III'	4	4	4			
CST 1030	Computer Literacy*						3
EDU 1000	Orientation to College	1					
EDU 1110	Introduction to Early Childhood Education		3				
EDU 2410	Human Growth and Development	3					
EDU 2810	Child Development from Infancy through Age Eight		3				
EDU 2820	Creative Activities and Experiences for Young Children			3			
EDU 2910,20	Prospective Teacher Cooperative I, II		3	3			
EDU 2930	Field Experiences in Early Childhood Education						3
ENG 1010,20,30	Composition I, II, III	3	3	3			
HEA 2210	Personal Health	3					
HEA 2310	Safety and First Aid*						3
HIS 2110,20,30	Survey of American History I, II, III				3	3	3
MAT 2310,20,30	Concepts of Mathematics I, II, III				3	3	3
MUS 1010	Music Appreciation				3		

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
PSY 1010	General Psychology I ⁴	3					
SOC 2010	Introduction to Sociology ³					3	
SPE 2410	Basic Speech Communication Elective ¹			4		3	
	Physical Education Activities	1	1	1			
	Physical/Natural Science ¹					4	
	Sophomore English				3	3	3
TOTAL CREDIT HOURS—102		18	17	18	16	15	18

¹Students planning to go to UTK are required to have BIO 1110, BIO 1120 and eight hours of science courses selected from NSC 1230, NSC 1310, or NSC 1410. Students going to TTU must take BIO 1110, BIO 1120, and BIO 1130, plus eight hours of physical or natural sciences for a total of twenty hours.

²Any CST course of a higher level may be substituted for CST 1030.

³Or HEA 2410, Community Health, or three additional hours of physical education activities courses.

⁴Students planning to go to UTK should substitute GGY 1010, Physical Geography I.

⁵Students planning to go to UTK should substitute SOC 2020, Social Institutions.

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		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BIO 1110,20	General Biology I, II	4	4				
CST 1030	Computer Literacy ¹						3
EDU 1000	Orientation to College	1					
EDU 1010	Orientation to the Education of the Exceptional Child						3
EDU 2010	Introduction to Education	3					
EDU 2210	Educational Psychology				3		
EDU 2410	Human Growth and Development	3					
EDU 2810	Child Development, Infancy through Age Eight		3				
EDU 2910,20	Prospective Teacher Cooperative Practicum I, II ²			3			3
ENG 1010,20,30	Composition I, II, III	3	3	3			
GGY 1010	Physical Geography I	3					
HEA 2210	Personal Health			3			
HEA 2310	Safety and First Aid ³		3				
HIS 2110,20,30	Survey of American History I, II, III				3	3	3
MAT 2310,20,30	Concepts of Mathematics I, II, III				3	3	3
MUS 1010	Music Appreciation		3				
SOC 2010	Introduction to Sociology ⁴					3	
SPE 2410	Basic Speech Communication Electives ¹			3			4
	Physical Education Activities	1	1	1			
	Physical/Natural Sciences ⁵			4		4	
	Sophomore English				3	3	3
TOTAL CREDIT HOURS—102		18	17	17	16	16	18

¹Any CST course of a higher level may be substituted for CST 1030.

²Students planning to go to TTU should substitute PSY 1010, General Psychology I, for EDU 2920.

³Or HEA 2410, Community Health, or three additional hours of physical education activities courses.

⁴Students planning to go to UTK should substitute SOC 2020, Social Institutions.

⁵Students planning to go to UTK should choose either NSC 1230, NSC 1310, or NSC 1410. Students planning to go to TTU should take BIO 1130 and eight additional hours of physical/natural sciences, for a total of twenty hours in science.

FIRE SCIENCE OPTION

The Fire Science Option is designed for a student who plans to complete a baccalaureate degree in any of the following areas: Fire Protection Engineering, Forest Fire Sciences, Fire Science Administration, Safety Administration, and Fire Prevention and Control. 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 the specific requirements of the chosen institution.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
CHE 1110,20,30	General Chemistry I, II, III		4	4	4		
CST 1040	BASIC Programming	3					
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
ENG 2820	Technical Writing				3		
ERG 1060,70	Fundamentals of Engineering Graphics I, II				4	4	
FST 1010	Introduction to Fire Science	3					
FST 1060	Industrial Hazards	3					
FST 1110	Construction Codes and Fire Protection Standards		3				
FST 2110	Inspection Principles and Practices						4
FST 2120	Principles of Hydraulics				3		
HEA 2310	Safety and First Aid				3		
HIS 2110,20,30	Survey of American History, I, II, III			3	3	3	
MAT 1110,20,30	Introduction to Analysis I, II, III	3	3	3			
PHY 2010,20,30	General Physics I, II, III				4	4	4
POL 1030	State and Local Government						3
PSY 1010	General Psychology I			3			
SPE 2440	Business and Professional Speaking		3				
	Sophomore English				3	3	
	Physical Education Activities			1	1	1	
	TOTAL CREDIT HOURS—103	16	16	17	18	18	18

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, advertising, etc., should select this option.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
CST 1030	Computer Literacy ¹				3		
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
HIS 2110,20,30	Survey of American History I, II, III		3	3	3		
	Electives ²	6	6	6	9	9	12
	Humanities					3	3
	Mathematics	3					
	Physical Education Activities		1	1			1
	Physical/Natural Science	4	4	4			
	Sophomore English				3	3	
	TOTAL CREDIT HOURS—100	17	17	17	18	16	15

¹Any CST course of higher level may be substituted for CST 1030.

²To 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		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BIO 1110,20,30	General Biology I, II, III	4	4	4			
CST 1030	Computer Literacy ¹						3
EDU 1000	Orientation to College	1					
EDU 2010	Introduction to Education		3				
EDU 2210	Educational Psychology				3		
ENG 1010,20,30	Composition I, II, III	3	3	3			
HEA 2210	Personal Health		3				
HEA 2310	Safety and First Aid			3			
HEA 2410	Community Health						3
HIS 2110,20,30	Survey of American History I, II, III				3	3	3
MAT 2310,20	Concepts of Mathematics I, II				3	3	
PED 2710	Introduction to Physical Education	3					
PED 2820	Coaching of Baseball ²					3	
PED 2850	Playground Leadership						3
PSY 1010,20	General Psychology I, II	3	3				
PSY 2410	The Developing Person: The Childhood Years			3			
SPE 2410	Basic Speech Communication					3	
	Elective	3					
	Physical Education Activities	1	1	1			
	Recreation Electives			3	3		
	Social Science Electives				3		3
	Sophomore English				3	3	3
	TOTAL CREDIT HOURS—103	18	17	17	18	18	15

¹Any CST course of a higher level may be substituted for CST 1030.

²Or PED 2840, Coaching of Basketball.

MATHEMATICS OR PHYSICAL SCIENCE OPTION¹

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 chemistry, mathematics, physics, or any area which has similar requirements for the first two years.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
CHE 1110,20,30	General Chemistry I, II, III ²	4	4	4			
CST 1030	Computer Literacy ¹						3
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
HIS 2110,20,30	Survey of American History I, II, III			3			3
MAT 2610,20,30,40	Calculus and Analytic Geometry I, II, III, IV	5	5	5		5	
MAT 2650	Linear Algebra ⁴				3		
MAT 2710	Differential Equations ⁴						5
PHY 2110,20,30	Physics I, II, III				4	4	4
	Electives ⁵						5
	Humanities				3	3	
	Physical Education Activities	1	1	1			
	Social Science Electives	3				3	3
	Sophomore English				3	3	
	TOTAL CREDIT HOURS—103	17	16	16	16	18	20

¹Follow the above curriculum for mathematics or physics emphasis. For a chemistry emphasis, reduce the math requirements to MAT 2610, 20, 30, 40; reduce electives to 4 hours; and add CHE 2310, 20, 30.

²Students choosing a mathematics emphasis may substitute a three quarter biology sequence.

³Any CST course of a higher level may be substituted for CST 1030.

⁴MAT 1310 and MAT 2550 should be used for electives for MAT majors.

⁵Should be used for MAT 1500 if needed.

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; all music majors must register for MUS 1000—Solo Class (for no credit) every quarter and MUS 2000—Recital (for no credit) the last quarter before graduation.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
CST 1030	Computer Literacy ¹						3
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
HIS 2110,20,30	Survey of American History I, II, III				3	3	3
MUS 1000	Solo Class	0	0	0	0	0	0
MUS 1020	Fundamentals of Music	3					
MUS 1110,20	Theory		3	3			
MUS 1111,21	Theory Practicum		1	1			
MUS 2000	Recital						0
MUS 2010,20,30	Introduction to Music Literature I, II, III				2	2	2
MUS 2110,20,30	Advanced Theory				3	3	3
MUS 2111,21,31	Advanced Theory Practicum				1	1	1
	Applied Instruction in Music	2	2	2	2	2	2
	Electives ²	3	3	3			
	Ensemble	1	1	1	1	1	1
	Mathematics				3		
	Physical Education Activities				1	1	1
	Physical/Natural Science	4	4	4			
	Sophomore English					3	3
	TOTAL CREDIT HOURS—102	17	17	17	16	16	19

¹Any CST course of a higher level may be substituted for CST 1030.
²Must 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; all music majors must register for MUS 1000—Solo Class (for no credit) every quarter and MUS 2000—Recital (for no credit) the last quarter before graduation.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
CST 1030	Computer Literacy ¹						3
EDU 1000	Orientation to College	1					
EDU 2010	Introduction to Education	3					
EDU 2210	Educational Psychology					3	
EDU 2410	Human Growth and Development				3		
ENG 1010,20,30	Composition I, II, III	3	3	3			
HEA 2210	Personal Health						3
HIS 2110,20,30	Survey of American History I, II, III		3	3			
MUS 1000	Solo Class	0	0	0	0	0	0
MUS 1020	Fundamentals of Music	3					
MUS 1110,20	Theory		3	3			
MUS 1111,21	Theory Practicum		1	1			
MUS 2000	Recital						0
MUS 2010,20,30	Introduction to Music Literature I, II, III				2	2	2
MUS 2110,20,30	Advanced Theory				3	3	3
MUS 2111,21,31	Advanced Theory Practicum				1	1	1
PSY 1010	General Psychology I						3

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
SPE 2410	Basic Speech Communication						3
	Applied Instruction to Major Areas	1	1	1	2	2	2
	Ensemble	1	1	1	1	1	1
	Mathematics	3					
	Physical Education Activities		1	1			1
	Physical/Natural Science	4	4	4			
	Sophomore English				3	3	
	TOTAL CREDIT HOURS—108	19	17	17	18	19	18

¹Any CST course of a higher level may be substituted for CST 1030.

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 these engineering fields: aerospace, chemical, civil, electrical, engineering mechanics, engineering physics, engineering science, fire protection, industrial, mechanical, metallurgical, nuclear, etc. See page 111 for two year engineering technology programs.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
CHE 1110,20,30	General Chemistry I, II, III	4	4	4			
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
ERC 1060,70	Fundamentals of Engineering Graphics I, II	4	4				
ERC 1030	Computer Aided Problem Solving in Engineering ¹	3					
ESC 2010,20	Engineering Mechanics I, II				3	3	
ESC 2110	Thermodynamics ²						3
HIS 2110,20,30	Survey of American History I, II, III		3		3	3	
MAT 2610,20,30,40	Calculus and Analytic Geometry I, II, III, IV	5	5	5		5	
MAT 2650	Linear Algebra				3		
MAT 2710	Differential Equations						5
PHY 2110,20,30	Physics I, II, III				4	4	4
	Elective ³						3
	Humanities Electives			3	3		
	Physical Education Activities			1	1	1	
	Sophomore English				3	3	
	TOTAL CREDIT HOURS—109	20	19	16	17	19	18

¹Students planning to transfer to Tennessee Technological University should substitute ERG 1200.

²Students planning to transfer to Tennessee Technological University should substitute CST 2210 for ESC 2110.

³Students starting with MAT 1500, Pre-Calculus, should use this course for an elective.

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 of dentistry or pharmacy, 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 or professional school of his/her choice to determine specific requirements for admission.¹

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BIO 1110,20,30	General Biology I, II, III ²	4	4	4			
CHE 1110,20,30	General Chemistry I, II, III	4	4	4			
CHE 2310,20,30	Organic Chemistry I, II, III				4	4	4
CST 1030	Computer Literacy ³						3
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
HIS 2110,20,30	Survey of American History I, II, III		3	3	3		
MAT 1110,20,30	Introduction to Analysis I, II, III	3	3	3			
PHY 2010,20,30	General Physics I, II, III				4	4	4
	Humanities Electives				3		3
	Physical Education Activities	1	1	1			
	Social Science Electives					3	3
	Sophomore English				3	3	
	TOTAL CREDIT HOURS—100¹	16	18	18	17	14	17

¹Students planning to transfer to Tennessee Technological University should consult advisor for the appropriate curriculum.

²Students with at least two years of high school biology or satisfactory ACT scores may, with permission from the Math-Science division, omit BIO 1110, 20, 30 and enter BIO 2610, 20, 30 directly (see course listings under Biology). If BIO 1110, 20, 30 are elected, BIO 2610, 20 are recommended as electives. If BIO 2610, 20, 30 are elected, one year of foreign language is also recommended.

³Any CST course of a higher level may be substituted for CST 1030.

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.¹ 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.

See page 116 for the two-year, associate degree program in Nursing.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BIO 1110	General Biology I	4					
BIO 2310,20,30	Anatomy and Physiology I, II, III				4	4	4
BIO 2510	Microbiology				4		
BIO 2610	Genetics						4
CHE 1040,50,60	Introductory General, Organic and Biochemistry I, II, III	4	4	4			
CST 1030	Computer Literacy ²						3
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
HIS 2110,20,30	Survey of American History I, II, III				3	3	3
MAT 1110	Introduction to Analysis I	3					
PSY 1010,20,30	General Psychology I, II, III		3	3	3		
PSY 2410	The Developing Person: The Childhood Years				3		
SOC 2010	Introduction to Sociology					3	
SOC 2020	Social Institutions			3			
SOC 2030	Social Problems			3			

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
SOC 2110	Introduction to Cultural Anthropology				3		
	Elective						3
	Humanities Electives		3	3			
	Physical Education Activities	1	1	1			
	Sophomore English				3	3	
	TOTAL CREDIT HOURS—103	16	17	17	19	17	17

¹For transfer to UTK the following applies: 26 hours of total electives are allowed in 4 years. Of these, 14 hours must be in Humanities, including Arts, Black Studies, Classics, Foreign Language, History, Literature, Music, Philosophy, Related Arts and Crafts, Religion, Speech (Theater and Drama). The other 12 hours are free electives. Nutrition 3020 (UTK number) must also be taken before progression to the third year is possible. Psychological Statistics (Psych. Stat. 3150; UTK) may be taken before progression to the third year. Nursing 2800 must be taken at UTK in spring or summer prior to the junior year but only after petition for progression has been approved by UT College of Nursing.

²Any CST course of a higher level may be substituted for CST 1030.

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.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
ART 1010	Art Appreciation	3					
CST 1030	Computer Literacy ¹		3				
EDU 1000	Orientation to College	1					
EDU 1010	Orientation to the Education of the Exceptional Child					3	
EDU 2010	Introduction to Education	3					
EDU 2210	Educational Psychology ²					3	
EDU 2410	Human Growth and Development	3					
EDU 2910	Prospective Teacher Cooperative Practicum I				3		
ENG 1010,20,30	Composition I, II, III	3	3	3			
HEA 2210	Personal Health			3			
HEA 2310	Safety and First Aid		3				
HEA 2410	Community Health						3
HIS 2110,20,30	Survey of American History I, II, III				3	3	3
MAT 2510	Elementary Statistics ³				3		
MUS 1010	Music Appreciation				3		
PSY 1010	General Psychology I		3				
SOC 2010	Introduction to Sociology			3			
SPE 2410	Basic Speech Communication						3
	Electives			3		6	
	Physical Education Activities	1	1	1			
	Physical/Natural Science	4	4	4			
	Social Science Elective						3
	Sophomore English				3	3	3
	TOTAL CREDIT HOURS—100	18	17	17	18	15	15

¹Any CST course of a higher level may be substituted for CST 1030.

²EDU 2920 may be substituted for students going to UTK.

³Students planning to teach mathematics should take a higher mathematics sequence.

⁴Electives should be concentrated in the area of certification.

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		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
CST 1030	Computer Literacy ¹				3		
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
HIS 2110,20,30	Survey of American History I, II, III		3	3	3		
SPE 2410	Basic Speech Communication Elective	3					3
	Humanities Electives ²					3	3
	Mathematics		3	3			
	Physical Education Activities	1	1	1			
	Physical/Natural Science	4	4	4			
	Social Science Electives	3	3	3			
	Sophomore English				9	9	12
					3	3	
	TOTAL CREDIT HOURS—100	15	17	17	18	15	18

¹Any CST course of a higher level may be substituted for CST 1030.

²Students planning to pursue a Bachelor of Arts degree should take one year of foreign language instead of 3 hours in sophomore literature, 3 hours in humanities electives, and 3 hours in 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.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
ART 1010	Art Appreciation			3			
BIO 1110,20,30	General Biology I, II, III	4	4	4			
CST 1030	Computer Literacy ¹						3
EDU 1000	Orientation to College	1					
EDU 1010	Orientation to the Education of the Exceptional Child			3			
EDU 2010	Introduction to Education	3					
EDU 2210	Educational Psychology				3		
EDU 2410	Human Growth and Development	3					
EDU 2810	Child Development From Infancy Through Age Eight			3			
EDU 2820	Creative Activities and Experiences for Young Children						3
EDU 2910,20	Prospective Teacher Cooperative Practicum I, II				3	3	
ENG 1010,20,30	Composition I, II, III	3	3	3			
HEA 2310	Safety and First Aid					3	
HIS 2110,20,30	Survey of American History I, II, III				3	3	3
MAT 2310,20,30	Concepts of Mathematics I, II, III				3	3	3
MUS 1010	Music Appreciation			3			
PSY 1010	General Psychology I			3			
SOC 2010	Introduction to Sociology			3			

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
SPE 2410	Basic Speech Communication			3			
	Electives*				3		
	Physical Education Activities	1	1	1			
	Sophomore English				3	3	3
	TOTAL CREDIT HOURS—100	18	17	17	15	18	15

*Any CST course of a higher level may be substituted for CST 1030.

*Elective hours should be selected according to the requirements of the four-year institution to which the student plans to transfer.

TECHNOLOGY OPTION'

This program is designed for the student who plans to obtain a Bachelor of Science degree in Technology or Industrial Education.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
CST 1040	BASIC Programming				3		
CHE 1110,20	General Chemistry I, II	4		4			
EDU 1000	Orientation to College	1					
EET 1010,1020	Electric Circuits, I, II		3	3			
EET 1015,1025	Electric Circuits I, II Lab		1	1			
ENG 1010,20,30	Composition I, II, III		3	3	3		
ERG 1060,70	Fundamentals of Engineering Graphics I, II	4	4				
ERG 1200	The Engineering Profession			2			
FST 1030	Industrial Safety	3					
HIS 2110,20,30	Survey of American History I, II, III			3		3	3
MAT 1500	Pre-Calculus	5					
MAT 2610,20	Calculus and Analytic Geometry I, II		5	5			
PHY 2010,20,30	General Physics I, II, III				4	4	4
	Humanities Electives					3	3
	Physical Education Activities				1	1	1
	Sophomore English					3	3
	Technology Electives				6	3	3
	TOTAL CREDIT HOURS—105	17	18	19	17	17	17

*Elective hours should be selected according to the requirements of the four-year institution to which the student plans to transfer.

CAREER EDUCATION PROGRAMS

The Associate of Science programs listed on the following pages are designed primarily for the student who wishes to seek employment after two years of college. Specialty courses in Career Education are not generally included in baccalaureate programs. However many of the courses in these programs will transfer and all are fully accredited college courses. Students planning to graduate with an Associate Degree in Career Education are required to complete the general education courses of the core curriculum in arts and sciences. (See page 78.)

ALLIED HEALTH PROGRAMS

The two-year associate degree programs in Allied Health, described on the following pages, are designed for students who plan to seek employment after two years of college. The programs offered are:

- | | |
|-------------------------------|--------------------------------|
| Health Physics Technology | Physical Therapy Assistant |
| Medical Laboratory Technology | Radiologic Technology |
| Medical Record Technology | Respiratory Therapy Technology |

Special admissions requirements in addition to the regular college admissions policy for all Allied Health programs are described on pp. 37-38.

HEALTH PHYSICS TECHNOLOGY

Health physics technicians generally work under the supervision of health physicists in maintaining radiation safety. They use special instruments to monitor work areas and equipment to detect radioactive contamination. Soil, water and air samples are taken frequently to determine radiation levels. Monitors also may collect and test radiation detectors worn by workers, such as film badges and pocket detection chambers, to ensure that they are functioning properly. Monitors calculate the amount of time that personnel may safely work in contaminated areas, considering maximum radiation exposure limits and the radiation level. They also give instructions in radiation safety procedures and prescribe special clothing requirements and other safety precautions for workers entering radiation zones.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BIO 1110,20,30	General Biology I, II, III	4	4	4			
CHE 1110,20,30	General Chemistry I, II, III	4	4	4			
CST 1040	BASIC Programming						3
EDU 1000	Orientation to College	1					
ENG 1010,20	Composition I, II		3	3			
ENG 2820	Technical Writing				3		
HPT 2010	Instrumentation and Measurement				4		
HPT 2020	Safety and Emergency Procedures						3
HPT 2040	Radiation Analysis						4
HPT 2060	Radioactive Waste Management						4
MAT 1110,20,30	Math Analysis I, II, III	3	3	3			
MAT 2510	Elementary Statistics I				3		
PHY 2010,20,30	General Physics I, II, III				4	4	4
RDT 1610,20	Radiation Physics I, II	3	3				
RDT 2810	Radiation Protection			3			
	Internship						6
	Social Science Elective				3		
	Humanities Elective						3
	Physical Education Activities	1	1	1			
TOTAL CREDIT HOURS—100		16	18	18	17	17	14

MEDICAL LABORATORY TECHNOLOGY¹

The Medical Laboratory Technology program is designed to qualify students to work as Medical Laboratory Technicians. The curriculum combines general education and science courses with clinical laboratory courses and clinical laboratory experience. Students graduating from the program are eligible for Board of Registry of the American Society of Clinical Pathologists certification and State of Tennessee licensure. The program is accredited by the AMA Committee on Allied Health Education and Accreditation in collaboration with the American Society of Clinical Pathologists. A comprehensive examination will be required of all students graduating from this program.

SUMMARY OF REQUIRED HOURS		FIRST YEAR				SECOND YEAR			
Course No.	Course Title	F	W	Sp	Su	F	W	Sp	Su
ALH 2010	Computer Applications in Health Care					3			
BIO 2310,20,30	Anatomy and Physiology I, II, III	4	4	4					
BIO 2510	Microbiology		4						
CHE 1110,20,30	General Chemistry I, II, III	4	4	4					
EDU 1000	Orientation to College	1							
ENG 1010	Composition I		3						
MLT 1110	Introduction to Laboratory Techniques	4							
MLT 2010,20	Fundamentals of Clinical Chemistry					4	4		
MLT 2210	Hematology						4		
MLT 2310,2420	Diagnostic Microbiology I, II			5		4			
MLT 2610	Immunohematology					4			
MLT 2910,20	Basic Clinical Education I, II							4	4
MLT 2930	Clinical Chemistry							6	
MLT 2940	Clinical Hematology							6	
MLT 2950	Clinical Immunohematology								6
MLT 2960	Clinical Microbiology								6
NSC 1220 ²	Topics in Mathematics for the Health Professional	3							
SPE 2410 ³	Basic Speech Communication			3					
	Physical Education Activities		1			1	1		
	Social Science Electives						6		
	TOTAL CREDIT HOURS—111	16	16	16		16	15	16	16

¹Students entering the program in the Spring Quarter will follow a different sequence as recommended by the advisor.

²Students planning to pursue a Bachelor of Science degree should take MAT 1110, Introduction to Analysis I.

³Or SPE 2430, 2440, 2710.

MEDICAL LABORATORY TECHNOLOGY¹**(FOR MLT-C GRADUATES)**

Graduates of a NAACLS accredited MLT-C program will be eligible for an Associate of Science in Medical Laboratory Technology by completing the following requirements:

1. Providing an official record of completion of an accredited MLT program.
2. Providing a written notification of intent to pursue the MLT degree.
3. Passing Part I of a comprehensive exam and thereby receiving transfer credit for 36 credit hours of medical laboratory technology course work (see MLT Credit by Transfer).
4. Passing Part II of a comprehensive examination and thereby receiving Credit by Proficiency for 25 credit hours of medical laboratory technology course work (see MLT Credit by Proficiency).

MLT Credit by Transfer

Eligible MLT students passing Part I of the comprehensive exam may receive transfer credit for the following courses:

MLT 1110	Introduction to Laboratory Techniques	4
MLT 2910,20	Basic Clinical Education I, II	8
MLT 2930	Clinical Chemistry	6
MLT 2940	Clinical Hematology	6
MLT 2950	Clinical Immunohematology	6
MLT 2960	Clinical Microbiology	6

MLT Credit by Proficiency

Students passing Part II of the examination will register and receive credit for the following 25 hours, subject to Roane State fee policies.

MLT 2010,20	Fundamentals of Clinical Chemistry I, II	8
MLT 2210	Hematology	4
MLT 2310, 2420	Diagnostic Microbiology I, II	9
MLT 2610	Immunoematology	4

NOTE: Students may not register for more than 22 total hours per quarter. This includes courses in which the student is actually enrolled and course credit by proficiency.

SUMMARY OF REQUIRED HOURS

Course No.	Course Title	
ALH 2010	Computer Applications in Health Care	3
BIO 2310,20,30	Anatomy and Physiology I, II, III	12
BIO 2510	Microbiology	4
CHE 1110,20,30	General Chemistry I, II, III	12
EDU 1000	Orientation to College	1
ENG 1010	Composition I	3
NSC 1220 ²	Topics in Mathematics for the Health Professional	3
SPE 2410 ³	Basic Speech Communication	3
	Physical Education Activities	3
	Social Science Electives	6
	Credit by Proficiency	25
	Credit by Transfer	36
	TOTAL CREDIT HOURS—111	

¹See advisor for scheduling classes.

²Students planning to pursue a Bachelor of Science degree should take MAT 1110.

³Or SPE 2430, 2440, 2710.

MEDICAL RECORD TECHNOLOGY

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 department. 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.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
ALH 1010,20	Medical Terminology I, II	3	3				
ALH 2010	Computer Applications in Health Care				3		
BIO 2310,20,30	Anatomy and Physiology I, II, III	4	4	4			
BIO 2350	Pathophysiology					3	
BUS 2910	Management and Supervision I				3		
CST 1030	Computer Literacy			3			
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
MRT 1010,20,30	Medical Records I, II, III	3	3	3			
MRT 1040	Legal Aspects of Medical Records			3			
MRT 1050	Medical Record Practicum			1			
MRT 1230	Medical Transcription			3			
MRT 2110	Trends in Medical Records				3		
MRT 2120	Advanced Medical Record Procedures					3	
MRT 2310,20,30	Directed Practice I, II, III				3	3	3
MRT 2430	Medical Record Seminar						3
NSC 1220	Topics in Math for the Health Professional				3		
OAD 1010	Typing I (or equivalent)	3					
OAD 2140	Word/Information Processing I					3	
OAD 2160	Business Applications for Microcomputer						3
SPE 2440	Business and Professional Speaking						3
	Elective						3
	Physical Education Activities	1	1	1			
	Social Science Electives				3	3	
	TOTAL CREDIT HOURS—101	18	17	18	18	15	15

PHYSICAL THERAPY ASSISTANT

The Physical Therapist Assistant program is designed to prepare individuals with the necessary knowledge and skills to effectively assist in treatment and testing of the physical therapy patient under the supervision of a Registered Physical Therapist. Students are trained in the use of exercise, physical therapy modalities, and special treatment procedures in laboratory and clinical settings.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
ALH 1010	Medical Terminology I	3					
ALH 2010	Computer Applications in Health Care			3			
BIO 2310,20,30	Anatomy I, II, III	4	4	4			
EDU 1000	Orientation to College	1					
ENG 1010,20	Composition I, II	3	3				
MAT 1110	Analysis I			3			
MAT 2510	Statistics I				3		
PTA 1110	Introduction to Physical Therapy	3					
PTA 1240	Kinesiology			3			
PTA 1810	Clinical Observation			1			
PTA 2010	Patient Care			2			
PTA 2110	Neuro-Muscular Skeletal						3
PTA 2120	Treatment Orthopedic			3			
PTA 2130	Treatment Neurological						4
PTA 2140	Treatment Medical						3
PTA 2150	Treatment Surgical						3
PTA 2210	Therapeutic Procedures						3
PTA 2220	Professional Assistive Techniques						2
PTA 2310	Therapeutic Module I						2
PTA 2320	Therapeutic Module II						5
PTA 2410	Mobility Techniques						3
PTA 2710,20,30	Seminar I, II, III				1	2	2
PTA 2810,20,30	Clinical I, II, III				1	4	6
SPE 2410 ¹	Basic Speech Communication			3			
	Social Science Electives	3			3	3	
	Physical Education Activities	1	1	1			
	TOTAL CREDIT HOURS—102	18	17	17	18	16	16

¹Or SPE 2430, 2440, 2710.

RADIOLOGIC TECHNOLOGY¹

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.² 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 Examinations which certify them as Radiologic Technologists. The program is accredited by the American Medical Association.

SUMMARY OF REQUIRED HOURS		FIRST YEAR				SECOND YEAR			
Course No.	Course Title	F	W	Sp	Su	F	W	Sp	Su
ALH 1010	Medical Terminology I			3					
ALH 2010	Computer Applications in Health Care							3	
BIO 2310,20,30	Anatomy and Physiology I, II, III	4	4	4					
EDU 1000	Orientation to College	1							
ENG 1010,20	Composition I, II	3	3						
ENG 2820	Technical Writing					3			
NSC 1220	Topics in Math for the Health Professional	3							
PSY 1010	General Psychology			3					
	Social Science Electives							3	
RDT 1000,40,20,50	Clinical Education I, II, III, IV	4	4	4	8				
RDT 1110	Introduction to Radiologic Technology	3							
RDT 1250,60,70	Radiographic Positioning I, II, III		3	3	3				

SUMMARY OF REQUIRED HOURS		FIRST YEAR				SECOND YEAR			
Course No.	Course Title	F	W	Sp	Su	F	W	Sp	Su
RDT 1450,60,70,80	Radiographic Principles I, II, III, IV		2	2	2	2			
RDT 1510,20	Radiographic Film Evaluation I, II							2	2
RDT 1610	Radiation Physics I					3			
RDT 2140,50,60,70	Clinical Education V, VI, VII, VIII					6	6	6	8
RDT 2310	Radiographic Positioning IV					3			
RDT 2320	Radiographic Positioning V						3		
RDT 2410	Introduction to Imaging								1
RDT 2610	Radiation Physics II						3		
RDT 2710	Special Examinations and Equipment I					2			
RDT 2810	Radiation Protection						3		
RDT 2910	Radiographic Pathology								2
RDT 2915,25	Radiologic Technology Seminar I, II								2 2
SPE 2410	Basic Speech Communication								3
TOTAL CREDIT HOURS—134		18	19	16	13	19	18	18	13

¹Due to the large number of hours required in this program, students may petition for exemption from the physical education requirement.

RADIOLOGIC TECHNOLOGY¹ (For Radiologic Technologists)

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

SUMMARY OF REQUIRED HOURS

Course No.	Course Title	
BUS 2810	Business Mathematics	3
BUS 2910	Management and Supervision I	3
EDU 1000	Orientation to College	1
ENG 1010,20	Composition I, II	6
PSY 2210	Educational Psychology	3
PSY 2610	Psychological Aspects of Management	3
SPE 2430	Interpersonal Communication	3
	Electives	6
	Physical Education Activities	3
	Social Science Electives	9
	Sub-Total	40
	ARRT Certification Credits	60
TOTAL CREDIT HOURS—100		

¹Courses in this program are to be scheduled by program director.

RESPIRATORY THERAPY

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

SUMMARY OF REQUIRED HOURS		FIRST YEAR				SECOND YEAR		
Course No.	Course Title	F	W	Sp	Su	F	W	Sp
ALH 1010	Medical Terminology I	3						
ALH 2010	Computer Applications in Health Care							3
BIO 2310,20,30	Anatomy and Physiology I, II, III	4	4	4				
BIO 2510	Microbiology			4				
CHE 1040	Introduction to General, Organic and Biochemistry I	4						
EDU 1000	Orientation to College	1						

SUMMARY OF REQUIRED HOURS		FIRST YEAR				SECOND YEAR		
Course No.	Course Title	F	W	Sp	Su	F	W	Sp
ENG 1010	Composition I	3						
NSC 1220 ¹	Topics in Math for the Health Professional	3						
RTT 1020	Cardiopulmonary Pharmacology				3			
RTT 1030	Cardiopulmonary-Renal Anatomy and Physiology			3				
RTT 1040	Acid-Base and Blood Gas Methodology				3			
RTT 1050	Pulmonary Function Methodology				3			
RTT 1110,20,30,40	Respiratory Therapy Science I, II, III, IV			4	4	4	4	
RTT 1500	Fundamental Patient Care		2					
RTT 1610	Introduction to Respiratory Therapy	1						
RTT 2120	Neonatal and Pediatric Respiratory Therapy					4		
RTT 2410,20	Pathology of Respiratory Diseases I, II		2	2				
RTT 2540	Respiratory Care Seminar							2
RTT 2610,20,30	Diagnostic and Therapeutic Techniques I, II, III				2	2	2	
RTT 2730,40,50	Clinical Education I, II, III					8	8	10
	Physical Education Activities		1	1	1			
	Social Science Electives ²		3	3				
	Speech Elective ³		3					
	TOTAL CREDIT HOURS—118	19	17	17	18	18	14	15

¹Students planning to pursue a bachelor's degree should take MAT 1110, Introduction to Analysis I.

²To be approved by program director.

³Speech elective may be chosen from SPE 2410, 2430, 2440, or 2710.

RESPIRATORY THERAPY NON-TRADITIONAL PROGRAM¹ HOLSTON VALLEY HOSPITAL AND MEDICAL CENTER

For a student to be classified for advanced standing in the Roane State Respiratory Therapy Program at Holston Valley Hospital and Medical Center, he/she must be a graduate of an accredited respiratory therapy technician program.

Graduates of a JRCRTE/CAHEA accredited technician program will be eligible for an Associate of Science in Respiratory Therapy Technology by completing the following requirements:

1. Providing an official record of completion of an accredited technician program.
2. Providing a written notification of intent to pursue the RTT credential.

RTT CREDIT BY TRANSFER

Eligible RTT students will receive transfer credit for the following courses:

ALH 1010	Medical Terminology I	3
RTT 1610	Introduction to Respiratory Therapy	1
RTT 1500	Fundamental Patient Care	2
RTT 1110	Respiratory Therapy Science I	4
RTT 1120	Respiratory Therapy Science II	4
RTT 1130	Respiratory Therapy Science III	4
RTT 1140	Respiratory Therapy Science IV	4
The following core curriculum courses or equivalencies are required for all RTT students:		
BIO 2310,20,30	Anatomy and Physiology I, II, III	12
BIO 2510	Microbiology	4
CHE 1040	Introduction to General, Organic and Biochemistry I	4
ENG 1010	Composition I	3
SPE	Speech Elective	3
NSC 1220*	Topics in Math for Health Professionals	3
	Health Education	3
	Social Science Electives	6
	Computer Science Elective	3

*MAT 1110 is recommended for students transferring to a four year program.

All of the respiratory therapy courses completed at the technician program have been assigned a course equivalency in the curriculum of the parent program at Roane State Community College. Credit for the technician courses is numerically equal to the first year credit in the curriculum of the parent program, with the exception of the following:

- RTT 1020 - Cardiopulmonary Pharmacology
- RTT 1030 - Cardiopulmonary-Renal Anatomy and Physiology
- RTT 1040 - Acid-Base and Blood Gas Methodology
- RTT 1050 - Pulmonary Function Methodology

These courses are given to the advanced standing students during the summer quarter. They must be successfully completed before the student is allowed to register for the sophomore level courses. After successful completion of the summer quarter respiratory therapy courses at Holston Valley Hospital and Medical Center, the student will have equal academic standing with the student at the parent program. The rest of the advanced standing curriculum is identical to the parent program's second year curriculum.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	Su	F	W	Sp		
RTT 1020	Cardiopulmonary Pharmacology	3					
RTT 1030	Cardiopulmonary-Renal Anatomy and Physiology	3					
RTT 1040	Acid-Base and Blood Gas Methodology	3					
RTT 1050	Pulmonary Function Methodology	3					
RTT 2120	Neonatal and Pediatric Respiratory Therapy				4		
RTT 210,20	Pathology of Respiratory Diseases I, II			2	2		
RTT 2540	Respiratory Care Seminar						2
RTT 2610,20,30	Diagnostic and Therapeutic Techniques I, II, III			2	2		2
RTT 2730,40,50	Clinical Education I, II, III			8	8		10
TOTAL CREDIT HOURS—54 ²		12		16	12		14

¹Students applying to Holston Valley component must have completed their first year of training in an accredited respiratory therapy certificate program.

²Students must complete core curriculum requirements or equivalencies.

BUSINESS PROGRAMS

BUSINESS MANAGEMENT TECHNOLOGY: ACCOUNTING OPTION

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BUS 1010	Introduction to Business	3					
BUS 1810	Business Mathematics	3					
BUS 1820	Finance Mathematics		3				
BUS 2210,20,30	Principles of Accounting I, II, III	3	3	3			
BUS 2240	Principles of Auditing						3
BUS 2250	Cost Accounting				3		
BUS 2310	Income Tax Accounting—Personal					3	
BUS 2320	Income Tax Accounting—Business						3
BUS 2510	Legal Environment for Business			3			
BUS 2520	Business Law						3
BUS 2610	Psychological Aspects of Management						3
BUS 2710,20,30	Intermediate Accounting I, II, III				3	3	3
CST 1030	Computer Literacy	3					
CST 1040	BASIC Programming		3				
CST 2220	COBOL Programming			4			
ECO 2010,20,30	Principles of Economics I, II, II				3	3	3
EDU 1000	Orientation to College	1					
ENG 1010,20	Composition I, II	3	3				
ENG 2820	Technical Writing					3	
MAT 1110	Introduction to Analysis I					3	
MAT 2510	Elementary Statistics			3			
SPE 2440	Business and Professional Speaking ¹		3				
	Elective			3			
	Physical Education Activities	1	1	1			
	Social Science Electives						
TOTAL CREDIT HOURS—101		17	16	17	18	18	15

¹Or SPE 2410—Basic Speech Communication.

BUSINESS MANAGEMENT TECHNOLOGY: BANKING OPTION

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BNK 1100	Principles of Banking	3					
BNK 1120	Money and Banking			3			
BNK 1140	Savings and Time Deposit Banking	3					
BNK 2190	Law and Banking			3			
BNK 2120	Analyzing Financial Statements						3
BNK 2150	Consumer Lending				3		
BUS 1010	Introduction to Business	3					
BUS 1810	Business Math	3					
BUS 1820	Finance Math		3				
BUS 2030	Real Estate Finance				3		
BUS 2210,20,30	Principles of Accounting I, II, III				3	3	3
BUS 2510	Legal Environment for Business						3
BUS 2520	Business Law				3		
BUS 2610	Psychological Aspects of Management						3
BUS 2830	Marketing			3			
BUS 2910	Management and Supervision I				3		
CST 1030	Computer Literacy		3				
CST 1040	BASIC Programming				3		
ECO 2010,20	Principles of Economics I, II	3	3				
EDU 1000	Orientation to College	1					
ENG 1010,20	Composition I, II	3	3				
SPE 2440	Business and Professional Speaking ¹			3			
	Business/Banking Electives				6	3	
	Humanities Elective			3			
	Physical Education Activities	1	1	1			
	Social Science Electives				3	3	3
	TOTAL CREDIT HOURS—100	17	16	16	18	18	15

¹Or SPE 2410—Basic Speech Communication

COMPUTER SCIENCE: BUSINESS OPTION

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BUS 1010	Introduction to Business	3					
BUS 2210,20,30	Principles of Accounting I, II, III				3	3	3
BUS 2910	Management and Supervision					3	
CST 1040	BASIC Programming	3					
CST 1050	Introduction to Computers	3					
CST 2210	FORTRAN Programming			4			
CST 2220	COBOL Programming		4				
CST 2410	Systems Analysis		3				
CST 2620	Data Base Management Systems						3
CST 2630	Advanced Programming Techniques					3	
ECO 2010,20,30	Economics I, II, III				3	3	3
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
ENG 2820	Technical Writing				3		
MAT 1110	Analysis I		3				
MAT 2510	Elementary Statistics I			3			
PSY 2610	Psychological Aspects of Management					3	
SPE 2440	Business and Professional Speaking						3
	Computer Science Electives*			3	3		3
	Social Science			3	3	3	3
	Physical Education Activities	1	1	1			
	Elective		3				
	TOTAL CREDIT HOURS—99	14	17	17	15	18	18

***Computer Science Electives:**

CST 2110	Introduction to Structured Programming
CST 2120	Intermediate Structured Programming
CST 2240	RPG Computer Programming
CST 2250	APL Computer Programming
CST 2820	Machine Organization and Assembly Language Programming

BUSINESS MANAGEMENT TECHNOLOGY: GENERAL BUSINESS OPTION

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BUS 1010	Introduction to Business	3					
BUS 1810	Business Mathematics	3					
BUS 1820	Finance Mathematics		3				
BUS 1850	Personal Finance			3			
BUS 2210,20,30	Principles of Accounting I, II, III	3	3	3			
BUS 2250	Cost Accounting				3		
BUS 2310	Income Tax Accounting—Personal					3	
BUS 2320	Income Tax Accounting—Business						3
BUS 2510	Legal Environment for Business				3		
BUS 2520	Business Law						3
BUS 2610	Psychological Aspects of Management			3			
BUS 2810	Salesmanship				3		
BUS 2820	Retailing				3		
BUS 2830	Marketing						3
CST 1030	Computer Literacy		3				
CST 1040	BASIC Programming			3			
ECO 2010,20,30	Principles of Economics I, II, III				3	3	3
EDU 1000	Orientation to College	1					
ENG 1010,20	Composition I, II	3	3				
ENG 2820	Technical Writing			3			
MAT 2510	Elementary Statistics I				3		
PSY 1010,20	General Psychology I, II	3	3				
SOC 2010	Introduction to Sociology			3			
SPE 2440	Business and Professional Speaking ¹				3		
	Physical Education Activities	1	1	1			
	Social Science Electives				3	3	3
TOTAL CREDIT HOURS—100		17	16	19	18	15	15

¹Or SPE 2410—Basic Speech Communication.

BUSINESS MANAGEMENT TECHNOLOGY: INSURANCE OPTION

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BUS 1010	Introduction to Business	3					
BUS 1810	Business Mathematics	3					
BUS 1820	Finance Mathematics		3				
BUS 2210,20	Principles of Accounting I, II				3	3	
BUS 2510	Legal Environment for Business						3
BUS 2610	Psychological Aspects of Management						3
BUS 2810	Salesmanship			3			
CST 1030	Computer Literacy		3				
ECO 2010,20	Principles of Economics I, II	3	3				
EDU 1000	Orientation to College	1					
ENG 1010,20	Composition I, II	3	3				
FST 1030	Industrial Safety			3			
FST 1110	Construction Codes and Fire Protection Standards					3	
FST 2110	Inspection Principles and Practices				3		
INT 1010	Principles of Insurance		3				
INT 1110	Basic Life and Health Insurance				3		
INT 1120	Basic Property Insurance				3		

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
INT 1130	Basic Casualty Insurance						3
INT 2110	Advanced Life and Health Insurance						3
INT 2120	Advanced Property Insurance						3
INT 2130	Advanced Casualty Insurance						3
MAT 2510	Elementary Statistics I						3
OAD 1010	Typing I	3					
OAD 2210	Office Administration			3			
SPE 2440	Business and Professional Speaking ¹			3			
	Business Elective			3			
	Humanities Elective				3		
	Insurance/Business Elective						3
	Physical Education Activities	1	1	1			
	Social Science Electives				3	3	
	TOTAL CREDIT HOURS—100	17	16	16	18	15	18

¹Or SPE 2410—Basic Speech Communication.

BUSINESS MANAGEMENT TECHNOLOGY: MANAGEMENT AND SUPERVISION OPTION

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BUS 1010	Introduction to Business	3					
BUS 1810	Business Mathematics	3					
BUS 1820	Finance Mathematics				3		
BUS 1850	Personal Finance						3
BUS 2210,20,30	Principles of Accounting I, II, III	3	3	3			
BUS 2510	Legal Environment for Business			3			
BUS 2520	Business Law				3		
BUS 2610	Psychological Aspects of Management						3
BUS 2810	Salesmanship					3	
BUS 2820	Retailing				3		
BUS 2830	Marketing						3
BUS 2910,20,30	Management and Supervision I, II, III				3	3	3
BUS 2940	Management Seminar						3
CST 1030	Computer Literacy			3			
ECO 2010,20	Principles of Economics I, II	3	3				
EDU 1000	Orientation to College	1					
ENG 1010,20	Composition I, II	3	3				
ENG 2820	Technical Writing			3			
FST 1030	Industrial Safety					3	
MAT 2510	Elementary Statistics I						3
PSY 1010,20	General Psychology I, II				3	3	
QET 1020	Quality Control I				3		
SPE 2440	Business and Professional Speaking ¹			3			
	Elective			3			
	Physical Education Activities	1	1	1			
	Social Science Electives			3			3
	TOTAL CREDIT HOURS—100	17	16	16	18	18	15

¹OR SPE 2410—Basic Speech Communication.

BUSINESS MANAGEMENT TECHNOLOGY: SAVINGS ASSOCIATION OPTION

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BNK 2120	Analyzing Financial Statements						3
BUS 1010	Introduction to Business	3					
BUS 1810	Business Mathematics	3					
BUS 1820	Finance Mathematics			3			
BUS 1850	Personal Finance					3	
BUS 2010	Principles of Real Estate				3		
BUS 2020	Real Estate Law					3	
BUS 2030	Real Estate Finance						3
BUS 2210,20	Principles of Accounting I, II				3	3	
BUS 2510	Legal Environment for Business						3
BUS 2520	Business Law			3			
BUS 2610	Psychological Aspects of Management						3
BUS 2810	Salesmanship			3			
BUS 2910	Management and Supervision I				3		
CST 1030	Computer Literacy			3			
ECO 2010,20	Principles of Economics I, II	3	3				
EDU 1000	Orientation to College	1					
ENG 1010,20	Composition I, II	3	3				
INT 1010	Principles of Insurance				3		
MAT 2510	Elementary Statistics I						3
OAD 2310	Business Communications			3			
SAV 1010	Introduction to Savings Association	3					
SAV 1110	Savings Accounts			3			
SAV 1120	Savings Account Administration			3			
SAV 2110	Savings Association Operations				3		
SPE 2440	Business and Professional Speaking ¹			3			
	Business/Savings Association Elective						3
	Humanities Elective						3
	Physical Education Activities	1	1	1			
	Social Science Electives				3	3	
TOTAL CREDIT HOURS—100		17	16	16	18	18	15

¹Or SPE 2410—Basic Speech Communication.

BUSINESS MANAGEMENT TECHNOLOGY: SMALL BUSINESS OPTION

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BUS 1010	Introduction to Business	3					
BUS 1810	Business Mathematics	3					
BUS 1820	Finance Mathematics			3			
BUS 1850	Personal Finance						3
BUS 2210,20	Principles of Accounting I, II				3	3	
BUS 2310	Income Tax Accounting—Personal					3	
BUS 2320	Income Tax Accounting—Business						3
BUS 2510	Legal Environment for Business				3		
BUS 2520	Business Law					3	
BUS 2610	Psychological Aspects of Management			3			
BUS 2810	Salesmanship			3			
BUS 2830	Marketing						3
BUS 2900	Small Business Management						3
CST 1030	Computer Literacy	3					
ECO 2010,20,30	Principles of Economics I, II, III				3	3	3
EDU 1000	Orientation to College	1					
ENG 1010,20	Composition I, II	3	3				
ENG 2820	Technical Writing			3			
MAT 2510	Elementary Statistics I				3		
PSY 1010,20	General Psychology I, II	3	3				
SOC 2010	Introduction to Sociology			3			
SPE 2440	Business and Professional Speaking ¹				3		
	Business Electives			3			3
	Physical Education Activities	1	1	1			
	Social Science Electives				3	3	
TOTAL CREDIT HOURS—100		17	16	19	18	15	15

¹Or SPE 2410—Basic Speech Communication.

OFFICE ADMINISTRATION PROGRAMS

The two-year Office Administration program is designed to prepare professionals in many aspects of office work and administration. Proficiency is developed in the skills of type-writing, shorthand, dictation, transcription, office management, and word processing. This curriculum is designed for a student planning to seek employment at the end of two years. Office Administration degree emphasis areas are available in the Executive Secretary, Medical Secretary, General Clerical, and Word/Information Processing fields. A one-year certificate program in Secretarial Science is also available; see below.

OFFICE ADMINISTRATION: EXECUTIVE SECRETARY OPTION¹

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BUS 1010	Introduction to Business	3					
BUS 2210	Accounting I					3	
CST 1030	Computer Literacy			3			
ECO 2010	Principles of Economics I				3		
EDU 1000	Orientation to College	1					
ENG 1010,20	Composition I, II				3	3	
ENG 2820	Technical Writing						3
MAT 2510	Elementary Statistics I					3	
OAD 1010,20,30	Typing I, II, III	3	3	3			
OAD 1110,20,30	Shorthand I, II, III ¹	5	5	5			
OAD 1210	Machine Transcription			3			
OAD 2110	Shorthand Transcription ¹					3	
OAD 2130	Word/Information Processing Concepts	3					
OAD 2140	Word/Information Processing I		3				
OAD 2160	Business Applications for Microcomputer						3
OAD 2210	Office Procedures and Administration			3			
OAD 2320,30	Business Communications I, II	3	3				
	Physical Education Activities				1	1	1
	Speech Elective		3				
	Social Science Electives				3		3
	Technical Electives ²				6	3	6
	TOTAL CREDIT HOURS—100	18	17	17	16	16	16

¹Students choosing the non-shorthand options (General Clerical, Medical Secretary, or Word/Information Processing) should substitute the following courses for OAD 1110, 1120, 1130, and 2110 (shorthand sequence):

General Clerical should substitute Technical Electives

Medical Secretary should substitute MRT 1210, 1220, 1230 (Medical Terminology I, II, and Medical Transcription) and Technical Electives

Word/Information Processing should substitute OAD 2150—Word/Information Processing II; ART 2310—Art on the Computer; and Technical Electives

²Technical Electives should be chosen from Business (BUS), Computer Science (CST), Economics (ECO), Office Administration (OAD), and Cooperative Education (COE) courses.

SECRETARIAL SCIENCE (CERTIFICATE)¹

The one-year Secretarial Science program is designed for a student interested in an office occupation emphasizing clerical stenographic, and/or word processing duties. The wide range of college-level courses included in this curriculum provides training for such office work as stenographer, receptionist, typist, clerk, word processor, and secretary. In addition to providing practical training for immediate employment, these courses comprise the first year of the two-year Office Administration program (above) and nearly all can be applied toward a four-year degree in Office Administration or Business Education.

SUMMARY OF REQUIRED HOURS		FIRST YEAR		
Course No.	Course Title	F	W	Sp
BUS 1010	Introduction to Business	3		
CST 1030	Computer Literacy		3	
EDU 1000	Orientation to College	1		
OAD 1010,20,30	Typing I, II, III	3	3	3
OAD 1210	Machine Transcription			3
OAD 1110,20,30	Shorthand I, II, III ¹	5	5	5
OAD 2210	Office Procedures and Administration			3
OAD 2130	Word/Information Processing Concepts	3		
OAD 2140	Word/Information Processing I		3	
OAD 2320,30	Business Communications I, II	3	3	
	Speech Elective			3
TOTAL CREDIT HOURS—52		18	17	17

¹Students wishing to follow a non-shorthand program may substitute 15 hours of Technical Electives.

ENGINEERING TECHNOLOGY PROGRAMS

The primary objectives of the two-year 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 Electrical/Electronics, Fire Science, and Quality Assurance Technologies. Electrical/Electronic Engineering Technology with an option in Robotics is offered through a collaborative agreement between Roane State and Chattanooga State Technical Community College. For an engineering program designed to transfer to a four-year institution, see Pre-Engineering Transfer Program, p. 94.

ENGINEERING TECHNOLOGY: ELECTRICAL/ELECTRONICS TECHNOLOGY OPTION¹

Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
CST 1040	BASIC Programming				3		
EDU 1000	Orientation to College	1					
EET 1010	Electric Circuits I	3					
EET 1015	Electric Circuits Lab I	1					
EET 1020	Electric Circuits II		3				
EET 1025	Electric Circuits Lab II		1				
EET 1310,20,30	Electronics I, II, III		3	3		3	
EET 1315,25,35	Electronics Lab I, II, III		1	1		1	
ENG 1010,20	Composition I, II	3	3				
ENG 2820	Technical Writing			3			
ERG 1030	Computer-Aided Problem Solving			3			
ERG 1060	Fundamentals of Engineering Graphics I		4				
ERG 1200	The Engineering Profession	2					
ERG 2150	Computer-Aided Design I				4		
FST 1030	Industrial Safety				3		
MAT 1110,20,30	Introduction to Analysis I, II, III ²	3		3			3
MAT 1210	Trigonometry ²		3				
MCT 1100	Introduction to Minicomputers	3					
MCT 2310	Digital Circuits			3			

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
MCT 2315	Digital Circuits Lab			1			
MCT 2850	Microprocessors						4
PHY 2010,20,30	General Physics I, II, III				4	4	4
	Physical Education Activities	1		1			1
	Social Science Electives					3	3
	Technical Electives ³					8	6
	TOTAL CREDIT HOURS—107	17	18	18	18	18	18

¹Specially courses in career education are not usually included in baccalaureate programs.

²Students able to take higher level math courses should do so and substitute them for the math courses required in this curriculum.

³Must be chosen from list below and approved by advisor:

CST 2110	Introduction to Structured Programming	3
CST 2210	FORTRAN Programming	4
EET 1610	Electrical Systems Design I	3
EET 1630	Elements of Electrical Generation, Transmission and Distribution	3
EET 1635	Elements of Electrical Generation, Transmission and Distribution Lab	1
EET 2250	Special Topics in Electronics	3
EET 2260	Electronic Troubleshooting	3
EET 2510	Industrial Electronics and Control I	3
EET 2515	Industrial Electronics and Control Lab I	1
EET 2520	Industrial Electronics and Control II	3
EET 2525	Industrial Electronics and Control II Lab	1
EET 2550	Electrical Machinery	3
EET 2555	Electrical Machinery Lab	1
EET 2610	Process Instrumentation and Controls I	3
EET 2615	Process Instrumentation and Controls Lab I	1
ERG 2160	Computer-Aided Design II	4

ENGINEERING TECHNOLOGY: FIRE SCIENCE TECHNOLOGY OPTION

The Fire Science Technology Option is designed to prepare students for initial employment or advancement with municipalities, industrial firms, or other employers requiring trained personnel. Graduates may also be employed by insurance companies as sales personnel, fire insurance adjusters, or bureau raters. Two emphases are offered: Service and Protection. This program has been approved by the Tennessee Commission on Fire Fighting Personnel Standards and Education.

Students who plan to transfer to a senior institution to complete a baccalaureate degree should see the transfer program—Fire Science Option—under the A.S. Transfer Programs, p. 91.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
CHE 1110,20	General Chemistry I, II			4	4		
CST 1040	BASIC Programming						3
EDU 1000	Orientation to College	1					
EET 1640	Electrical Wiring						4
ENG 1010,20	Composition I, II	3	3				
ENG 2820	Technical Writing			3			
ERG 1030	Computer-Aided Problem Solving			3			
ERG 1060	Fundamentals of Engineering Graphics I						4
ERG 1200	The Engineering Profession			2			
FST 1010	Introduction to Fire Science	3					
FST 1060	Industrial Hazards			3			
FST 1040	Fundamentals of Fire Prevention			3			
FST 1110	Construction Codes and Fire Protection Standards			3			
FST 2110	Inspection Principles and Practices						4
FST 2120	Principles of Hydraulics					3	
FST 2210	Hazardous Materials						3
MAT 1110	Introduction to Analysis I ¹	3					

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
MAT 1120	Introduction to Analysis II ¹			3			
MAT 1130	Introduction to Analysis III ¹			3			
MAT 1210	Trigonometry ¹					3	
PHY 2010	General Physics I					4	
SPE 2440	Business and Professional Speaking			3			
	Mathematics Elective ¹						3
	Physical Education Activities			1	1		1
	Social Science Electives					3	3
	Major Electives ²			3	3	6	6
TOTAL CREDIT HOURS—105		16	18	17	18	19	17

¹The math elective is to be selected from MAT 1310, Symbolic Logic; MAT 2510, Elementary Statistics; MAT 2550, Probability and Statistics; or any higher level math course. Students capable of taking higher level math courses should do so and substitute them for the math courses required in this option.

²Major electives must be chosen from the list below and approved by advisor for Protection or Service emphasis:

FST 1070	Industrial Safety	3
FST 1050	Personal Fire and Life Safety	3
FST 1120	Environmental Technology	3
FST 2010	Fire Fighting Strategy	3
FST 2020	Blueprint Reading and Sketching	4
FST 2040	Arson Detection and Investigation	3
FST 2060	Fire Protection Law	3
FST 2090	Instructor Training	3
FST 2220	Water Distribution	3
FST 2230	Water Suppression Systems	3
FST 2510	Fire Protection Equipment and Systems	3
FST 2610	Fire Department Administration	3
FST 2620	Seminar	3
FST 2700	Practicum	2

ENGINEERING TECHNOLOGY: QUALITY ASSURANCE TECHNOLOGY OPTION¹

The quality assurance technician is a paraprofessional who has an associate degree or equivalent experience and who, in support of and under the direction of quality assurance engineers or supervisors, can carry out in a responsible manner proven techniques in quality assurance technology. Under professional direction, the quality assurance technician analyzes and solves quality problems, performs laboratory procedures, tests products, measures process performance, builds and calibrates test equipment, records data, and prepares formal reports to assist the quality assurance engineer to perform his or her duties.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
CHE 1110	General Chemistry I			4			
CST 1040	BASIC Programming			3			
EDU 1000	Orientation to College	1					
EET 1110	Electric Circuit Fundamentals					3	
ENG 1010,20	Composition I, II	3	3				
ENG 2820	Technical Writing			3			
ERG 1060	Fundamentals of Graphics I				4		
ERG 1200	The Engineering Profession	2					
ERG 1110	Applied Mechanics I			3			
ERG 2140	Computer Graphics						4
FST 1030	Industrial Safety				3		
MAT 1110	Introduction to Analysis I ¹	3					
MAT 1120	Introduction to Analysis II ¹					3	
MAT 1130	Introduction to Analysis III ¹			3			
MAT 1210	Trigonometry ¹			3			
MAT 2510	Elementary Statistics I	3					
PHY 2010,20	General Physics I, II				4	4	
QAT 1020	Quality Control I	3					
QAT 1040	Introduction to Nondestructive Tests			4			

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
QAT 2010	Reliability Principles and Practices						3
QAT 2020	Quality Control II		3				
QAT 2030	Quality Control III			3			
QAT 2350	Statistics and Quality Control I				3		
QAT 2360	Statistics and Quality Control II					3	
	Major Electives ³				3	3	9
	Physical Education Activities	1		1	1		
	Social Science Electives					3	3
	TOTAL CREDIT HOURS—105	16	16	17	18	19	19

¹Specially courses in career education are not usually included in baccalaureate programs.

²Students able to take higher level mathematics courses should do so and substitute them for the courses required in this option.

³Major electives must be taken from the courses listed below and approved by the program director:

QAT 1050,60	Nondestructive Testing I, II	8
QAT 1110	Introduction to Nuclear Quality Assurance	3
QAT 2110	Mechanical Metrology	3
QAT 2120	Electrical Metrology	3
QAT 2210,20	Radiography I, II	6
QAT 2310	Procurement Quality Control	3
QAT 2360	Statistics and Quality Control II	3
QAT 2410,20	Intermediate Nuclear Quality Assurance I, II	6
QAT 2510	Nuclear Quality Assurance Auditing	3
QAT 2610	Quality Assurance Requirements for Nuclear Design	3
QAT 2710	Advanced Nuclear Quality Assurance	4
QAT 2810	Quality Circles	3

ENGINEERING TECHNOLOGY: ROBOTICS OPTION

This program is offered through a cooperative agreement with Chattanooga State Technical Community College. Students majoring in this option will receive training in the areas of installation, operation, and maintenance of robotic and automated manufacturing systems. All of the course requirements for the option may be taken at Roane State with the exception of 9 hours of highly specialized courses which must be taken at the Chattanooga State Technical Community College utilizing the resources of the Center for Productivity, Innovation, and Technology. The degree is awarded by Chattanooga State. See the Department Chairman for further details.

MINI/MICROCOMPUTER TECHNOLOGY¹

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

The primary objectives of the program are: 1) to offer a technical curriculum for the development of student competency in the service and maintenance of minicomputers and the associated peripheral devices within the computer system; 2) to provide high level training in the principles and concepts on which the design and operation of minicomputers, microcomputers, and other digital systems are based; 3) to develop skills and working knowledge of computer software and its interrelationship with the hardware; and 4) to provide state-of-the-art computer equipment and test instruments for hands-on training to support classroom and text material.

Graduates of the program are prepared to pursue careers in service and maintenance, manufacturing, engineering and design, software development, marketing, sales, and technical writing or training. According to the student's desires and aptitudes, the curriculum may be structured to emphasize a particular area of specialization.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
CST 1040	BASIC Programming	3					
EDU 1000	Orientation to College	1					
EET 1010,20	Electric Circuits I, II	3	3				
EET 1015,25	Electric Circuits I, II Lab	1	1				
EET 1310	Electronics I			3			
EET 1315	Electronics I Lab			1			
ENG 1010,20	Composition I, II	3	3				
ENG 2820	Technical Writing			3			
FST 1030	Industrial Safety			3			
MCT 1100	Introduction to Minicomputers						3
MCT 1210	Machine/Assembly Language Programming			3			
MCT 1810	Pulse and Switching Circuits			3			
MCT 1815	Pulse and Switching Circuits Lab			1			
MCT 2110	Data Communications I						3
MCT 2210	Operating Systems						3
MCT 2310	Digital Circuits			3			
MCT 2315	Digital Circuits Lab			1			
MCT 2350	Computer Architecture						3
MCT 2355	Computer Architecture Lab						1
	Elective						3
	Mathematics Electives ²	3	3	3			
	Physical Education Activities		1		1		1
	Social Science Electives					3	3
	Technical Electives ³			4	8	8	12
	TOTAL CREDIT HOURS—105	17	18	18	16	17	19

¹Specialty courses in career education are not usually included in baccalaureate programs.

²Mathematics electives are to be chosen from the list below and approved by the advisor. Higher level math courses are encouraged and may be substituted for one or more of these courses:

MAT 1110,20,30	Introduction to Analysis I, II, III	9
MAT 1210	Trigonometry	3
MAT 1310	Symbolic Logic	3

³Must be chosen from the list below and approved by advisor:

CST 2110	Introduction to Structured Programming	3
CST 2210	FORTRAN Programming	4
CST 2250	APL Programming	3
CST 2410	Systems Analysis	3
CST 2620	Data Base Management Systems	3
CST 2630	Advanced Programming Techniques	4
EET 1320	Electronics II	3
EET 1325	Electronics II Lab	1
EET 2510	Industrial Electronics and Control I	3
EET 2515	Industrial Electronics and Control I Lab	1
EET 2550	Electrical Machinery	3
EET 2555	Electrical Machinery Lab	1
EET 2610	Process Instrumentation and Controls I	3
EET 2615	Process Instrumentation and Controls I Lab	1
MCT 2000	Computer Service Internship	3
MCT 2410,20	Peripherals I, II	6
MCT 2415,25	Peripherals I, II Lab	2
MCT 2510	Computer Interfacing	4
MCT 2610	Computer Systems Maintenance/Troubleshooting	4
MCT 2700	Integrated Circuits	3
MCT 2705	Integrated Circuits Lab	1
MCT 2850	Microprocessors	4
MCT 2900	Advanced Topics	3

MINING TECHNOLOGY

The two-year Mining Technology program is designed for students interested in career opportunities in the mining industry. This training prepares students for initial entrance into employment and subsequent advancement in private industry and environmental or reg-

ulatory agencies requiring technically trained personnel. The students have the opportunity to work on Mining Technology reclamation projects and gain experience with operation and maintenance of heavy equipment, water and soil sampling and analysis, surveying and various other activities involved in reclamation work.

SUMMARY OF REQUIRED HOURS		FIRST YEAR				SECOND YEAR		
Course No.	Course Title	F	W	Sp	Su	F	W	Sp
BUS 1010	Introduction to Business				3			
BUS 2910	Management and Supervision I					3		
CET 2110	Surveying I					4		
CMT 1020	Coal Geology	3						
CMT 1110,20	Mine Operation and the Law I, II		3	3				
CMT 1210	Mining Business and Records	3						
CMT 1510	Reclamation Techniques and Land Use Planning				3			
CMT 1610	Energy and Society				3			
CMT 1920	Mine Electricity and Hazards						3	
CMT 2110	Water Quality Control							3
CMT 2210,20,30	Mining Internship I, II, III ¹				9			
CMT 2310	Coal Analysis and Preparation Plant Technology					3		
CMT 2420	Mining Methods and Equipment Technology							3
CMT 2430	Gas Detection						3	
CMT 2710	Noise Measurement and Dust Control						3	
CMT 2810	Mine Blasting and Explosives							3
EDU 1000	Orientation to College	1						
ENG 1010,20	Composition I, II		3				3	
ENG 2820	Technical Writing							3
ERG 2410	Surveying I				3			
FST 1030	Industrial Safety	3						
FST 1120	Environmental Technology	3						
FST 2020	Blue Print Reading and Sketching						4	
FST 2120	Principles of Hydraulics						3	
GGY 1010	Physical Geography							3
MAT 1110	Introduction to Analysis I ²	3						
MAT 1210	Trigonometry ²		3					
	Physical Education Activities	1	1			1		
	Social Science Elective							3
	Technical Electives ³		6	3			3	3
	TOTAL CREDIT HOURS—114	17	16	18	9	18	18	18

¹Students may receive credits for on-the-job training or employment experience in the coal industry. Substitutions can be made upon written approval of advisor.

²Students able to take higher level math courses should do so and substitute them for the math courses required in this curriculum.

³Technical electives are to be chosen from the following list and approved by the program director. CMT 2880, 2890, and 2895 may be substituted for CMT 2210, 20, and 30:

CMT 1310	Soil Sampling and Testing	3
CMT 1710	Surface Mine Revegetation	3
CMT 1810	Mine Rescue	3
CMT 2010	Mine Section Layout	3
CMT 2410	Mine Safety Management	3
CMT 2610	Remote Sensing	3
CMT 2720	Fundamentals of Surface Mine Engineering	3
CMT 2820	Mine Ventilation	3
CMT 2880	Mine Safety Instructor Training	6
CMT 2890	Special Training for Potential Surface Miners	3
CMT 2895	Special Training for Potential Underground Miners	6
CMT 2910	Mine Structure: Roof Control	3

NURSING

The two-year, associate degree program in Nursing emphasizes patient-centered approaches to nursing care. The graduate nurse is able to provide highly skilled nursing care for patients and families in a variety of health care delivery settings. The program of learning includes the study and clinical application of nursing theory and principles. The graduate

is eligible to take the State Board examination to become a registered nurse. See page 95 for the Pre-Nursing Option for the student who plans to transfer and complete the baccalaureate degree in nursing at a senior institution.

Special admissions requirements in addition to regular college admissions policy for the Nursing program are described on page 38.

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BIO 2310,20,30	Anatomy and Physiology I, II, III	4	4	4			
BIO 2510	Microbiology				4		
BUS 2910	Management and Supervision I				3		
EDU 1000	Orientation to College	1					
ENG 1010	Composition I		3				
NSC 1220	Topics in Math for the Health Professional ¹	3					
NSG 1110,20,30	Nursing I, II, III	7	7	7			
NSG 2110,20,40	Nursing IV, V, VI				10	10	7
NSG 2210	Principles in Nutrition	3					
NSG 2920	Transition into Practice						5
	Physical Education Activities	1	1	1			
POL 1010	Fundamentals of Government ²						3
PSY 1030	General Psychology III		3				
PSY 2410	Child Psychology			3			
	Speech Elective					3	
SOC 2010	Introduction to Sociology			3			
	General Elective					3	
TOTAL CREDIT HOURS—103		19	18	18	17	16	15

¹Or MAT 1110, Introduction to Analysis I.

²Or POL 2010, Introduction to Political Science.

POLICE SCIENCE CORRECTIONS OPTION¹

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BUS 1810	Business Mathematics ²	3					
BUS 2510	Legal Environment for Business				3		
COR 1010	Introduction to Corrections	3					
COR 1110	Juvenile Delinquency		3				
COR 1120	Emerging Rights of Prisoners			3			
COR 2010	Correctional Administration and Supervision				3		
COR 2020	Cultural Dimensions of Law				3		
COR 2030	Treatment in Corrections					3	
COR 2200	Practicum in Corrections						6
CST 1030	Computer Literacy		3				
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
FST 2040	Arson Detection and Investigation				3		
HEA 2310	Safety and First Aid					3	
MAT 2510	Elementary Statistics				3		
POL 1010	Fundamentals of American Government	3					
POL 1020	United States National Government		3				
POL 1030	State and Local Government in the United States			3			
PST 1010	Introduction to Law Enforcement	3					
PST 1110	Laws of Arrest, Search and Seizure		3				
PST 1120	Court Procedures			3			
PSY 1010,20	General Psychology I, II ³		3	3			
PSY 2310	Abnormal Psychology						3
SOC 2010	Introduction to Sociology			3			
SOC 2020	Social Institutions				3		
SOC 2030	Social Problems					3	
SOC 2130	Introduction to Criminology						3

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
SPE 2410	Basic Speech Communication						3
	Physical Education Activities	1		1	1		
	Social Science Elective						3
	TOTAL CREDIT HOURS—100	17	18	19	16	15	15

¹The **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.

²Or BUS 1820, Finance Mathematics.

³Or PSY 1030, General Psychology III.

POLICE SCIENCE OPTION¹

SUMMARY OF REQUIRED HOURS		FIRST YEAR			SECOND YEAR		
Course No.	Course Title	F	W	Sp	F	W	Sp
BUS 1810	Business Mathematics ²	3					
BUS 2510	Legal Environment for Business						3
COR 1010	Introduction to Corrections	3					
COR 1110	Juvenile Delinquency		3				
COR 1120	Emerging Rights of Prisoners			3			
CST 1030	Computer Literacy		3				
EDU 1000	Orientation to College	1					
ENG 1010,20,30	Composition I, II, III	3	3	3			
FST 2040	Arson Detection and Investigation				3		
HEA 2310	Safety and First Aid						3
MAT 2510	Elementary Statistics				3		
POL 1010	Fundamentals of American Government	3					
POL 1020	United States National Government		3				
POL 1030	State and Local Government in the United States			3			
PST 1010	Introduction to Law Enforcement	3					
PST 1110	Laws of Arrest, Search and Seizure		3				
PST 1120	Court Procedures			3			
PST 2010	Police Administration and Organization				3		
PST 2130	Criminal Investigations				3		
PST 2140	Criminal Law					3	
PST 2200	Seminar in Police Problems						6
PSY 1010,20	General Psychology I, II ³		3	3			
PSY 2310	Abnormal Psychology				3		
SOC 2010	Introduction to Sociology			3			
SOC 2020	Social Institutions					3	
SOC 2030	Social Problems						3
SOC 2130	Introduction to Criminology						3
SPE 2410	Basic Speech Communication					3	
	Physical Education Activities	1		1	1		
	Social Science Elective						3
	TOTAL CREDIT HOURS—100	17	18	19	15	16	15

¹The **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.

²Or BUS 1820, Finance Mathematics.

³Or PSY 1030, General Psychology III.



Dr. Charton congratulates Gamma Beta Phi Member



A Singing Valentine for Dr. Martin

COURSES OF STUDY



All of the courses listed in this section except those with numbers under 1000 are college-level courses. Generally, courses will transfer to other accredited institutions of higher education. Students who plan to transfer to a four-year institution, however, should also use a catalog from that institution in selecting courses at Roane State for transfer.

The following abbreviations indicate the quarter or quarters that a course will normally be offered:

F	Fall Quarter	W	Winter Quarter
Sp	Spring Quarter	Su	Summer Quarter

All course offerings are contingent upon enrollment or a reasonable expectation of enrollment. The college reserves the right to cancel or not to offer a course when enrollment or funding is judged insufficient.

In addition to the credit courses of study in each of the following disciplines, the college offers various special courses of study through the Continuing Education Program. All inquiries for special courses should be addressed to the Assistant Dean of Continuing Education.

ALLIED HEALTH

- ALH 1010—Medical Terminology I** 3 Credits
Introduction to the principles of medical terminology and the use of word elements as building blocks for medical terminology. F
- ALH 1020—Medical Terminology II** 3 Credits
Further study of medical terminology with emphasis on terminology as it relates to the systems of the body. W
- ALH 2010—Computer Applications in Health Care** 3 Credits
Practical applications of computers and computer software pertaining to each health care specialty. To include such topics as quality control management, DRG simulations, and budget preparation. F, Sp

ART

- ART 1010—Art Appreciation** 3 Credits
Analysis of expressive form, stylistic distinction. Traditional and modern techniques of painting, sculpture, architecture, and printmaking. A lecture course illustrated with slides. F, W, Sp
- ART 1110—Basic Studio I** 3 Credits
A structured studio course for beginning art majors consists of fundamentals emphasizing basic and related problems in two dimensional design and composition as a foundation for advanced work. (Required of all art majors. May be taken in any sequence with Basic Studio II and III.) F, W
2 hours lecture—4 hours studio
- ART 1120—Basic Studio II** 3 Credits
A continuation of Basic Studio I and the study of two dimensional design with emphasis on the theory of color and its application. (Required of all art majors. May be taken in any sequence with Basic Studio I and III.) F, W
2 hours lecture—4 hours studio
- ART 1130—Basic Studio III** 3 Credits
An extension of the study of fundamentals of design with basic and related problems in three dimensional structure. (Required of all art majors. May be taken in any sequence with Basic Studio I and II.) Sp
2 hours lecture—4 hours studio
- ART 2010—Art History Survey I** 3 Credits
A survey of architecture, painting, and sculpture from prehistoric times to the Renaissance. F
- ART 2020—Art History Survey II** 3 Credits
A survey of architecture, painting, and sculpture from the Renaissance to nineteenth century Impressionism. W

ART 2030—Art History Survey III—Modern Art 3 Credits

A detailed survey of architecture, painting, and sculpture from the late nineteenth century to the present. Sp

ART 2210—Communication Design 3 Credits

An introduction to the methods and materials of visual communication. (Prerequisite: ART 1110 and ART 1120.) F

ART 2310—Computer Art 3 Credits

Introduction to various applications of Computer Graphics and an overview of examples produced with the newest technology. Hands-on experience in working with microcomputer graphics software to solve a variety of design problems with simple computer graphics. Emphasis on applying the principles of art design to the media to create clear and creative graphics. Sp

ART 2410—Ceramics I 3 credits

Lecture and studio experience in ceramic techniques; clay mixing, hand building, wheel throwing, glazing, firing. May be started any quarter. F, W, Sp
2 hours lecture—4 hours studio

ART 2420—Ceramics II 3 Credits

Refinement of fundamental skills and techniques. Individualized consultation with instructor. F, W, Sp
2 hours lecture—4 hours studio

ART 2430—Ceramics III 3 Credits

Creative experimentation with contemporary sculptural form, clays, and glazes. F, W, Sp
2 hours lecture—4 hours studio

ART 2510—Painting I 3 Credits

An introduction to the techniques, materials, and tools used in oil painting. F, W, Sp
2 hours lecture—4 hours studio

ART 2520—Painting II 3 Credits

A continuation of ART 2510 with an emphasis on individual experimentation. F, W, Sp
2 hours lecture—4 hours studio

ART 2530—Painting III 3 Credits

An introduction to the techniques, materials, and tools used in acrylic and polymer painting. F, W, Sp, Su
2 hours lecture—4 hours studio

ART 2540—Watercolor I 3 Credits

An introduction to the techniques, materials and tools used in watercolor painting. Su
2 hours lecture—4 hours studio

ART 2550—Drawing 3 Credits

An introduction to the materials and techniques of drawing. Emphasis on the coordination of brain, hand and eye toward improved drawing skills.

ART 2560—Watercolor II 3 Credits

Further polishing of basic watercolor skills with added emphasis on the structural development of the painting. Extensive review of contemporary approaches to the media. Su

ART 2710—Introduction to Printmaking 3 Credits

Technical instruction in printmaking processes; intaglio, relief, and planographic processes. F, W, Sp, Su
2 hours lecture—4 hours studio

ART 2720—Advanced Printmaking 3 Credits

Continuation of Introduction to Printmaking with emphasis on individual experimentation. F, W, Sp, Su
2 hours lecture—4 hours studio

ART 2810—Basic Photography 3 Credits

An introduction to photography as a medium of art expression. Elements of visual design and basic camera skills. Elementary aspects of film development and print enlargement. Sp
2 hours lecture—4 hours lab

ART 2820—Photography II 3 Credits

Continuation of ART 2810. Sp
2 hours lecture—4 hours studio

ART 2910—Portfolio Preparation 3 Credits

Planning and execution of a body of cohesive work under the in-class supervision of an instructor. Slides of serious, contemporary art works will be presented and critiqued as examples of the desired level of portfolio work. Covers matting and presentation skills, logistics of exhibition and critique of work. (Prerequisites: ART 1110, 20) Sp

BANKING'**BNK 1100—Principles of Banking (3 AIB Credits) 3 Credits**

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 recent 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) 3 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 practical application of the economics of money and banking to the individual bank is stressed. 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) 3 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 purposes served by a wide range of securities. Investment terminology is covered in detail.

BNK 1140—Savings and Time Deposits (3 AIB Credits) 3 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 for 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. Interest rates, types of savings accounts, and the management of savings institutions (asset management, operations and control, supervision, liquidity, and marketing) are covered.

BNK 1150—Trust Functions and Services (3 AIB Credits) 3 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) 3 Credits

This course presents new trends which have emerged in the philosophy and practice of bank 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, illustrative cases are included in the course of study.

BNK 1170—Introduction to Commercial Lending 3 Credits

This course explains the role of the commercial lending functions within the banking industry as well as reviewing its importance in the total economy. It also provides an understanding of the technical skills necessary to be a successful commercial lender in today's competitive financial environment.

BNK 2100—Federal Reserve System (3 AIB Credits) 3 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) 3 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 2130—Credit Administration (3 AIB Credits) 3 Credits

This course, directed toward the executive level, is concerned with factors influencing and determining loan policy. It is not a "how" and "whether to" guide to granting credit, but discusses methods of credit investigation and analysis, credit techniques, specific credit problems, and regular, as well as, unusual types of loans—working capital loans, secured loans, real estate loans, installment loans, agricultural loans, loans to other financial institutions, and loan participations. Emphasis is also given to credit department organization and procedures, analysis of financial statements, and the methods of dealing with borrowers in financial difficulty.

BNK 2150—Installment Credit (3 AIB Credits) 3 Credits

This modular course emphasizes the pragmatic "how-to" details of Installment Credit. Topics covered are principles of credit evaluation, open-end credit, marketing bank services, collection policies and procedures, legal aspects, financial statement analysis, direct and indirect installment lending, leasing and other special situations, installment credit department management, insurance, and rate structure and yields.

BNK 2160—International Banking (3 AIB Credits) 3 Credits

International Banking is an overview introduction to a vast field for those working in international departments, as well as, for those involved in the domestic activities of their banks. The essential objective of the course is to present the basic framework and fundamentals of international banking: how money is transferred from one country to another, how trade is financed, what the international agencies are and how they supplement the work of commercial banks, international lending, and how money is changed from one currency to another.

BNK 2170—Management of Commercial Bank Funds (3 AIB Credits) 3 Credits

This course deals with those necessary principles from which the student can derive an adequate philosophy of funds management. It covers a broad range of bank situations and sizes. It opens with an overview of the overall banking environment, then zeroes in on individual bank environment and various facets of bank operations and their relationships with the funds management function. Considerable emphasis is placed on the proper organizational format to achieve this potential.

BNK 2190—Law and Banking (3 AIB Credits) 3 Credits

An introduction to basic American law, this course presents the rules of law which underlie banking. Topics are those usually covered in the first year curriculum of most American law schools. They include jurisprudence, the court system and civil procedure, contracts, quasi-contracts, property, torts, crimes, and agency. The nature of partnerships and corporations is also treated. The text concentrates on the Uniform Commercial Code in its coverage of sale of personal property, commercial paper, bank deposits and collections, documents of title, and secured transactions.

BNK 2910—Supervisory Training 3 Credits

See BUS 2910.

*Specialty courses in career education are not usually included in baccalaureate programs.

BIOLOGY

For a student to receive credit for a biology course, the lecture section must be accompanied by a laboratory session during the same quarter.

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 1110—General Biology I 4 Credits

An introduction to biology at the cellular and subcellular levels. F, W, Sp, Su
3 hours lecture—2 hours laboratory

- BIO 1120—General Biology II** 4 Credits
An introduction to the structure and function of multicellular organisms. W, Sp, Su
3 hours lecture—2 hours laboratory
- BIO 1130—General Biology III** 4 Credits
An introduction to the principles of heredity and to environmental biology. Sp, Su, F
3 hours lecture—2 hours laboratory
- BIO 2200—Field Biology** 4 Credits
An elective field-oriented course covering local fauna and flora identification, basic ecological principles, and outdoor skills. This course will generally be offered as a one to three week hiking experience. A special fee will be assessed to cover equipment, food, and transportation. Su
- BIO 2310—Anatomy and Physiology I** 4 Credits
A study of basic biological chemistry, cellular structure and function (including cellular respiration, protein synthesis, and cell division), control systems of the body, and integumentary and skeletal systems. The laboratory will provide experiments to illustrate principles covered in lecture as well as detailed anatomy and physiology of the integumentary and skeletal system. F
3 hours lecture—3 hours laboratory
- BIO 2320—Anatomy and Physiology II** 4 Credits
A study of the anatomy and physiology of the nervous system, muscular system, circulatory and immune systems, and the respiratory system. The laboratory will provide anatomical investigation of and physiological experimentation with these systems. (Prerequisite: BIO 2310 or consent of instructor) W
3 hours lecture—3 hours laboratory
- BIO 2330—Anatomy and Physiology III** 4 Credits
A study of the anatomy and physiology of the respiratory, excretory, digestive, endocrine, reproductive and special sense systems. The laboratory will provide anatomical investigation of and physiological experimentation with these systems. (Prerequisite: BIO 2320 or consent of instructor) Sp
3 hours lecture—3 hours laboratory
- BIO 2350—Pathophysiology** 3 Credits
An introduction to the disease processes and mechanisms of the human body and to the dysfunction of the body's systems. (Prerequisites: BIO 2310, 20, 30) W
3 hours lecture
- BIO 2510—Microbiology** 4 Credits
An introductory course in microbiology dealing with bacteria, fungi, yeast, and viruses to include discussions of cell structure, identification, taxonomy, metabolism, genetics, resistance, infection, disease, immunity, microbiology of food products and industrial microbiology. (Prerequisite: BIO 1130 or 2330 or consent of instructor) W, Su
3 hours lecture— 3 hours laboratory
- BIO 2610—Genetics** 4 Credits
A study of heredity including classical and modern principles and laboratory experiments involving several experimental organisms. (Prerequisites: BIO 1110, 20, 30 or consent of instructor; CHE 1030 or CHE 1130, and MAT 1130 are recommended) F, Sp
3 hours lecture—3 hours laboratory
- BIO 2620—Cell Biology** 4 Credits
A study of cellular structure and function. (Prerequisites: BIO 1110, 20, 30, CHE 1010, 20, 30) W
3 hours lecture—3 hours laboratory
- BIO 2630—Ecology** 4 Credits
Relations between organisms and their environment. Includes human environmental problems. Laboratories consist of sampling techniques and field trips. (Prerequisite: BIO 1130) Sp
3 hours lecture—3 hours laboratory
- BIO 2700—2750—Independent Scientific Investigation** 3 Credits
Independent laboratory/library research in biology by qualified students under the supervision of a faculty member. Especially designed to develop interest in and to apply techniques of scientific research. Up to nine credit hours may be earned. (Prerequisite: BIO 1130 and consent of the instructor) F, W, Sp, Su

BUSINESS¹

- BUS 1010—Introduction to Business** 3 Credits
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. F, W, Sp, Su

- BUS 1810—Business Mathematics** 3 Credits
The fundamentals of mathematics as applied to business. Emphasis on problems involving discounts, simple and compound interest, insurance and payroll. F, W, Sp, Su
- BUS 1820—Finance Mathematics** 3 Credits
Math applied to business operations such as preparing payroll, discounting notes and drafts, distributing profits and dividends, trading on the stock and bond markets, figuring consumer credit, and computing federal income taxes and social security benefits. F, W, Sp, Su
- BUS 1850—Personal Finance** 3 Credits
A course designed to aid the student in practical money management. Topics included are charting financial objectives; budgeting; consumer borrowing, renting, and buying; investing; employee benefits and taxation. F, W, Sp
- BUS 2010—Principles of Real Estate** 3 Credits
A fundamental real estate course covering the basic laws and principles of Tennessee Real Estate, giving understanding, background, and terminology necessary for advanced study in specialized courses. Will be of assistance to those preparing for the real estate affiliate broker's and broker's license examinations. F, W
- BUS 2020—Real Estate Law** 3 Credits
A study of Tennessee Real Estate Law, including rights incident to property ownerships and management, agency, contracts, and applications to real estate transfer, conveyances, probate proceedings, trust deeds, and foreclosure, as well as recent legislation governing real estate transactions. Applies toward educational requirement of a broker's examination. (Prerequisite: BUS 2010) W
- BUS 2030—Real Estate Finance** 3 Credits
Institutional and governmental funds for financing real estate transactions. (Prerequisite: BUS 2010) Sp
- BUS 2040—Real Estate Appraisal** 3 Credits
Theories, functions, and purposes of appraisal to include the economic approach, the replacement approach and comparative values for all types of real estate. F
- BUS 2210—Principles of Accounting I** 3 Credits
Covers the basic principles and procedures from the management viewpoint. Determination of new income and valuation of assets and the basic problems connected therewith are given careful attention. F, W
- BUS 2220—Principles of Accounting II** 3 Credits
Continues with notes and interest determination; plan depreciation; voucher systems; taxes on payroll, property and income; and the theory of internal control. (Prerequisite: BUS 2210) W, Sp
- BUS 2230—Principles of Accounting III** 3 Credits
Covers partnership organizations and operation, cost accounting, corporation capital accounts, earnings and dividends, bonds, funds statement and statement analysis. (Prerequisite: BUS 2220) Sp
- BUS 2240—Principles of Auditing** 3 Credits
An overview of the public accounting profession with emphasis on basic concepts underlying the auditor's role and techniques used by the auditor to achieve the objectives of the attest function of auditing. (Prerequisites: BUS 2210, 20, 30) Sp
- BUS 2250—Cost Accounting** 3 Credits
Principles of manufacturing and distribution cost accounting. Material, labor, and overhead costs in job order and process cost accounting; analysis of cost distribution and related problems. Business procedures and their relation to business situations and needs of management. (Prerequisite: BUS 2220) F
- BUS 2310—Income Tax Accounting—Personal** 3 Credits
Federal income tax laws with emphasis on the preparation of returns for individuals. (Prerequisites: BUS 2220 and BUS 2310 or permission of instructor) W
- BUS 2320—Income Tax Accounting—Business** 3 Credits
Federal income tax laws with emphasis on the preparation of returns for partnerships and corporations. (Prerequisite: BUS 2310) Sp
- BUS 2440—Business and Professional Speaking** 3 Credits
See course description under SPE 2440.
- BUS 2510—Legal Environment for Business** 3 Credits
Emphasis is placed on classification of laws, historical background of our systems of laws, duties, buying services, insurance, consumer protection, negotiable instruments, and business organization. The student will gain experience in recognizing and isolating issues of legal importance of precise language in business and legal transactions. F, W, Sp

- BUS 2520—Business Law** 3 Credits
Designed to acquaint the student with the privileges and responsibilities of the individual under business law. Topics studied will include the uniform commercial code, contracts, sales, agency, partnerships, corporations, and negotiable instruments. F, W, Sp
- BUS 2610—Psychological Aspects of Management** 3 Credits
A study of the application of psychological principles for business and other areas involving management. Topics to be covered will include supervision, communications, human relation skills, scientific and humanistic management, and group dynamics. Cross-listed as PSY 2610. F, W, Sp
- BUS 2710—Intermediate Accounting I** 3 Credits
Extensive analysis of the principal elements of accounting systems and statements. (Prerequisites: 2210, 20, 30) F
- BUS 2720—Intermediate Accounting II** 3 Credits
An intensive study of the balance sheet including valuation of assets, disclosure of liabilities, proper account classification, balance sheet and related income and expense items; and preparation of financial statements including tax regulations, management needs, and credit purposes. (Prerequisite: BUS 2710) W
- BUS 2730—Intermediate Accounting III** 3 Credits
Continuation of BUS 2720. (Prerequisite: BUS 2720) Sp
- BUS 2810—Salesmanship** 3 Credits
A specific course emphasizing the relationship of product and market, industrial and consumer retailing, methods of market analysis, salesmanship and sales methods. W, Sp
- BUS 2820—Retailing** 3 Credits
A study of the principles and practices of retailing including planning, policies, and procedures of distribution. F
- BUS 2830—Marketing** 3 Credits
A general but critical survey of the field of marketing, covering international industries and commerce, distribution of resources, factors of distribution and transportation. Sp, Su
- BUS 2900—Small Business Management** 3 Credits
An introductory course designed to provide an overview of the business environment and requirements for successfully operating a small business. Topics covered include forms of business, credit management, utilizing professionals, information management, etc. Students must secure departmental approval to take this course. F, Sp
- BUS 2910—Management and Supervision I** 3 Credits
- BUS 2920—Management and Supervision II** 3 Credits
- BUS 2930—Management and Supervision III** 3 Credits
This three-course sequence is designed to introduce the basic aspects of supervisory development, to include the functions of management, communication skills, interpersonal relations, motivation, morale, discipline, leadership training and evaluation, decision making and self-development. F, W, Sp Sequence
- BUS 2940—Management Seminar** 3 Credits
Consideration of current problems, issues, and developments in the area of management. Students are guided through individual projects and outside research related to their area of concentration and employment training. Sp
- BUS 2950—Labor Relations** 3 Credits
A broad overview of the general nature of the labor-management relationship as it exists. Special areas studied include: historical, legal and structural environments which influence contractual content and labor relations and the examination of the negotiation, administration, and content of the labor contract. Students must secure departmental approval to take this course. Sp

¹Specialty courses in career education are not generally included in baccalaureate programs.

CHEMISTRY

For a student to receive credit for a chemistry course, the lecture section must be accompanied by a laboratory session during the same quarter.

- CHE 1040—Introductory General, Organic and Biochemistry I** 4 Credits
Introductory course in chemistry dealing with the basic principles such as atomic structure, periodic law, physical states of matter, chemical bonding, types of compounds, and gas laws. (Prerequisite: MAT 1110 or high school algebra) F

3 hours lecture—3 hours laboratory

- CHE 1050—Introductory General, Organic and Biochemistry II** 4 Credits
Acids and bases, solutions, equilibria, and introductory topics in aliphatic and aromatic organic chemistry. (Prerequisite: CHE 1010) W
3 hours lecture—3 hours laboratory
- CHE 1060—Introductory General, Organic and Biochemistry III** 4 Credits
A continuation with emphasis on functional groups, biochemistry, drugs, and biologically active compounds. (Prerequisite: CHE 1020) Sp
3 hours lecture—3 hours laboratory
- CHE 1110—General Chemistry I** 4 Credits
A study of fundamental principles of chemistry, such as mathematical calculations of chemical relationships, atomic structure, periodic relationships, molecular structure, bonding, and the chemistry of oxygen, hydrogen, and water. (Prerequisite: 2 years of high school algebra or one college level math course) F, W, Su
3 hours lecture—3 hours laboratory
- CHE 1120—General Chemistry II** 4 Credits
Kinetic Molecular Theory, physical states of matter, solution chemistry, and electrolytes. (Prerequisite: CHE 1110) W, Sp, Su
3 hours lecture—3 hours laboratory
- CHE 1130—General Chemistry III** 4 Credits
Oxidation-reduction, electrochemistry, molecular and ionic equilibria, nuclear chemistry, and brief survey of organic chemistry. (Prerequisite: CHE 1120) Sp, Su
3 hours lecture—3 hours laboratory
- CHE 2210—Quantitative Analysis** 4 Credits
The study of the basic theories of quantitative analysis with stress on the theories of neutralization, precipitation, volumetric, and gravimetric analysis. (Prerequisite: CHE 1130) Sp, on demand
3 hours lecture—3 hours laboratory
- CHE 2310—Organic Chemistry I** 4 Credits
A study of the properties, preparations, nomenclature, and reactions of the aliphatic compounds. Concepts such as mechanisms of reactions and the relationship between structure and properties are developed. (Prerequisite: CHE 1130) F
3 hours lecture—3 hours laboratory
- CHE 2320—Organic Chemistry II** 4 Credits
A study of the properties, preparations, nomenclature, reactions, and spectroscopic characteristics of some aromatic compounds and various other compounds classified according to functional group. (Prerequisite: CHE 2310) W
3 hours lecture—3 hours laboratory
- CHE 2330—Organic Chemistry III** 4 Credits
A continuation of CHE 2320 and including an introduction to proteins, amino acids, carbohydrates and fats. (Prerequisite: CHE 2320) Sp
3 hours lecture—3 hours laboratory
- CHE 2700—2750—Independent Scientific Investigation** 3 Credits
Independent laboratory/library research in chemistry by qualified students under the supervision of a faculty member. Especially designed to develop interest in and to apply techniques of scientific research. Up to nine credit hours may be earned. (Prerequisite: CHE 1130 and consent of the instructor) F, W, Sp, Su

COAL MINING TECHNOLOGY¹

- CMT 1010—Introduction to Underground and Surface Mining** 3 Credits
A course designed to provide the student with an overview of the mining industry in terms of production techniques, equipment, safety requirements, and legal restrictions. Sp
- CMT 1020—Coal Geology** 3 Credits
Instruction is provided in the geologic characteristics of coal, as well as, in erosion, sedimentation, and groundwater as significant in the extraction of coal. F
- CMT 1110—Mine Operations and the Law I** 3 Credits
The student is introduced to the various phases of coal mining and instructed in how these relate to the Federal Mine Health and Safety Act of 1969 and state laws. F, W
- CMT 1120—Mine Operations and the Law II** 3 Credits
A continuation of Mine Operations and the Law I. W, Sp

- CMT 1210—Mining Business and Records** 3 Credits
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. F
- CMT 1310—Soil Sampling and Testing** 3 Credits
ASTM methods and techniques in soil sampling and testing will be taught in field, laboratory, and classroom experiences. W
- CMT 1510—Reclamation Techniques and Land Use Planning** 3 Credits
A review and evaluation of current surface mine reclamation techniques and land use planning concepts. Sp
- CMT 1610—Energy and Society** 3 Credits
An investigation is undertaken of alternative energy resources for the future with discussions of likely impact upon American society. W, Sp
- CMT 1710—Surface Mine Revegetation** 3 Credits
The student is taught basic concepts of plant physiology, in addition, to learning about plant, soil, water, and fertilizer needs on surface mined soils. Sp
- CMT 1810—Mine Rescue** 3 Credits
Instruction is given in the procedures and equipment which are utilized in mine rescue operations. Sp
- CMT 1910—Mining Hydraulics** 3 Credits
Principles of fluid power, systems, and application to modern mining equipment are presented. F, Sp
- CMT 1920—Mine Electricity and Hazards** 3 Credits
The student will be taught the specific details for assembly and operation of mine electrical circuits and equipment in accordance with mandated standards. W
- CMT 2000—Mine Surveying** 3 Credits
The student is taught fundamentals of surveying as they apply to mine operations. F
- CMT 2010—Mine Section Layout** 3 Credits
The student is taught to use the level, transit, plan table and other equipment as they apply to the development of a mine section layout. F
- CMT 2110—Water Quality Control** 3 Credits
Instruction in federal and state water standards is given, as well as, training in the practical use of laboratory and field test equipment. Sp
- CMT 2210—Mining Internship I** 3 Credits
- CMR 2220—Mining Internship II** 3 Credits
- CMT 2230—Mining Internship III** 3 Credits
Students will be employed in the mining industry in order to receive on-the-job training. Students will make periodic reports of their experiences to other students and faculty advisor.
- CMT 2310—Coal Analysis and Preparation Plant Technology** 3 Credits
Instruction (with laboratory training) is given in the approved methods of coal analysis and detailed instructions are provided in the operation of a coal cleaning and preparation plant in accordance with Bureau of Mine Safety Standards. F, W
- CMT 2410—Mine Safety Management** 3 Credits
Instruction in the principles of mine safety management in accordance with the course developed by the Bureau of Mines. Cost and production factors related to safety are included. F
- CMT 2420—Mining Methods and Equipment Technology** 3 Credits
Instruction and first hand experience are provided in the operation of the major types of equipment used in coal mining. Sp
- CMT 2430—Gas Detection** 3 Credits
Instruction is given in the use of equipment for monitoring toxic gases. Legal requirements also are considered. W
- CMT 2610—Remote Sensing** 3 Credits
The student is taught the use of aerial photogrammetry as an aid to mining and reclamation. W
- CMT 2710—Noise Measurement and Dust Control** 3 Credits
Federal standards in noise measurement and dust standards, instruction in noise meters, mine dust samplers and methods of supervision. Field experience with noise monitoring and dust equipment is included. W

- CMT 2720—Fundamentals of Surface Mine Engineering** 3 Credits
Instruction is given in overburden removal, drilling, blasting, contour grading, and landscaping. Field trips are included. Sp
- CMT 2810—Mine Blasting and Explosives** 3 Credits
Instruction is given in the specific details of the care and use of explosives in accordance with mandated standards. Sp
- CMT 2820—Mine Ventilation** 3 Credits
Instruction is provided concerning installation and operation of mine ventilation equipment in accordance with mandated standards. Sp
- CMT 2880—Mine Safety Instructor Training** 6 Credits
This course is designed to train the potential mine safety instructor in the techniques of good teaching, and the course is conducted as a workshop. Students are given objectives and principles to use in organizing material for presentations in the workshops and for later use in conducting their own classes. This is an approved course for qualification and certification by MSHA. Offered as needed.
- CMT 2890—Special Training for Potential Surface Miners** 3 Credits
The student is taught basic concepts in the following subjects: miners' rights, resp-devices, transportation controls, communications, work environment, escape and evacuation plans, fire warning, fire fighting, ground control, illumination, health, electrical hazards, explosives, and first aid. Offered as needed.
- CMT 2895—Special Training for Potential Underground Miners** 6 Credits
The student is taught basic concepts in the following subjects: miners' rights, self rescue, resp-devices, entering and leaving the mine, work environment, mine map and escapeways, roof and rib control, ventilation, health, clean-up and rock dusting, hazard recognition, electrical hazards, first aid, mine gases, explosives and safe working procedures. Offered as needed.
- CMT 2910—Mine Structure: Roof Control** 3 Credits
Basic principles of mine structures are investigated with emphasis given to the support of haulage equipment and roof control. W

¹Specialty courses in career education are not generally included in baccalaureate programs.

COMPUTER SCIENCE TECHNOLOGY¹

- CST 1030—Computer Literacy** 3 Credits
An introduction to computers on the level of the intelligent layman. Major topics include: historical developments, impact on society, terminology and equipment, and programming concepts. Includes hands-on experience using the BASIC programming language. (Formerly CST 1010)
- CST 1040—BASIC Programming** 3 Credits
An introduction to computer programming and programming techniques using the BASIC language.
- CST 1050—Introduction to Computers** 3 Credits
An introduction to computers for CST majors. History of computing, modern computer concepts, computer applications. The impact of computers on society, including such issues as privacy, data security and artificial intelligence.
- CST 2110—Introduction to Structured Programming** 3 Credits
An introduction to structured programming using the PASCAL language. Emphasis on the process of problem solving and algorithm development.
- CST 2120—Intermediate Structured Programming** 3 Credits
A continuation of CST 2110. Brief introduction to data structures. Emphasis on developing good programming style. (Prerequisite: CST 2110)
- CST 2210—FORTRAN Programming** 4 Credits
Scientific-oriented computer programming using the FORTRAN language. Emphasis on the mathematical problem solving process.
- CST 2220—COBOL Programming** 4 Credits
Computer programming using the COBOL language. Emphasis on structured programming techniques for business applications.
- CST 2240—RPG Computer Programming** 4 Credits
RPG Programming (Report Program Generator) is a problem-oriented language for maintaining and manipulating files and generating reports. This course will provide exercises with problems directed at various applications in a business system.

- CST 2250—APL Programming** 3 Credits
 APL (A programming language) is a procedure-oriented language that is a refinement and enhancement of mathematics. Emphasis is placed on the use of APL for developing algorithms.
- CST 2410—Systems Analysis** 3 Credits
 Fundamentals of systems analysis. The role of the systems analyst in the life-cycle of computer-based business systems. Tools and techniques of systems analysis. Case studies dealing with system study, design, development, and operation.
- CST 2620—Data Base Management Systems** 3 Credits
 An introduction to data base management systems. Creation and maintenance of data bases, query languages, interface with high-level languages, security. (Prerequisites: CST 1040 and CST 1050)
- CST 2630—Advanced Programming Techniques** 4 Credits
 Direct access input and output. File handling. Character string manipulation. (Prerequisite: CST 1040)
- CST 2710—Discrete Structures** 4 Credits
 An introduction to discrete structures useful in computer science. Sets, set logic, relations, functions. Proof techniques, induction, logic. Graphical representations and algorithms. (Prerequisites: CST 2120 and MAT 2620)
- CST 2820—Machine Organization and Assembly Language Programming** 4 Credits
 An introduction to assembly language instructions and programming. Elementary computer architecture. (Prerequisite: One course in computer programming)
- CST 2900—Special Topics in Computer Science** 3 Credits
 Content varies; may be repeated for credit to a maximum of 9 hours. (Prerequisite: Consent of department)

¹Students transferring to UT may receive only elective credit for some courses.

COOPERATIVE EDUCATION

- COE 1010—Cooperative Education I** 3-5 Credits
COE 1020—Cooperative Education II 3-5 Credits
COE 1030—Cooperative Education III 3-5 Credits
COE 1040—Cooperative Education IV 3-5 Credits
COE 1050—Cooperative Education V 3-5 Credits
COE 1060—Cooperative Education VI 3-5 Credits
- A sequence of experiential learning that takes place in real employment situations. The student must be approved by the Co-op Coordinator, the academic department of the student's major or an area that is being explored, and the employer for full-time or part-time, paid employment in industry, business or government.

A minimum of 30 hours of actual work experience per quarter will be necessary to receive credit. The work experience will be jointly evaluated by the coordinator of cooperative education, the employer, the academic department, and the student. For further information contact the office of Cooperative Education.

CORRECTIONS

- COR 1010—Introduction to Corrections** 3 Credits
 This course includes the history of criminal corrections in the United States; analysis of the crime problem; identification of the correctional client; correctional methods used in the United States; and emphasizes correctional goals in the criminal justice system. (Formerly PST 2310) F
- COR 1110—Juvenile Delinquency** 3 Credits
 A study of new attempts geared toward the rebellious youthful offenders in the areas of treatment, experimentation, innovative programs, and theories of causation. W
- COR 1120—Emerging Rights of Prisoners** 3 Credits
 An attempt to systematically identify and analyze the practical implications of recent court decisions affecting civil rights and due process of prisoners. Sp

- 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. F
- COR 2020—Cultural Dimensions of Law 3 Credits**
 A study in the history and development of laws and methods dealing with primitive societies, social control, and its resulting effects on the evolution of societies to the current state. F
- COR 2030—Treatment in Corrections 3 Credits**
 A study of various methods used in counseling to include principles and techniques for both group and individual therapy. A variety of therapies will be discussed including behavior modification, guided group interaction, transactional analysis, and reality therapy. W, Sp
- COR 2200—Practicum in Corrections 6 Credits**
 The placement of a student in a correctional institution or detention facility to observe and participate in its operation. Participation will include activity in all functions required to operate a correctional institution. Attention will be given to the implementation of state-of-the-art techniques in traditional incarceration problem areas. Sp

DEVELOPMENTAL STUDIES I'

- DSM 0810—Algebra A 5 Credits**
 Algebra A is designed to introduce students to introductory algebra skills and basic concepts of geometry. Satisfactory completion of this course or other evidence of competencies in these areas is a prerequisite for DSM 0820: Algebra B.
- DSM 0820—Algebra B 5 Credits**
 Algebra B is a continuation of Algebra A. Students will be introduced to and learn to solve problems on various algebra topics, geometric concepts, and statistical processes. Satisfactory completion of this course or other evidence of competencies in these areas is a prerequisite for DSM 0830: Algebra C.
- DSM 0830—Algebra C 5 Credits**
 Algebra C is a continuation of Algebra B. Students will continue to solve problems on various algebra topics, geometry concepts, and statistical processes. Satisfactory completion of this course or other evidence of competencies in these areas is a prerequisite for college level math courses.
- DSE 0840—Basic Writing 5 Credits**
 Basic Writing is designed to develop writing skills with special emphasis on sentences and the fundamentals of paragraph development. Satisfactory completion of this course or other evidence of competencies in these areas is a prerequisite for DSE 0850: Developmental Writing.
- DSE 0850—Developmental Writing 5 Credits**
 Developmental Writing is designed to develop writing skills with special emphasis on paragraph patterns and short essays. Satisfactory completion of this course or other evidence of competencies in these areas is a prerequisite for ENG 1010: Composition I.
- DSS 0860—Study Skills II 5 Credits**
 Study Skills II reviews the speaking, listening, and study skills techniques which each student must possess in order to successfully participate in a college classroom. (Corequisite: DSM 0810 or DSM 0820; and DSM 0850)
- DSR 0870—Developmental Reading 5 Credits**
 Developmental Reading improves skills which are necessary if the student is to succeed with required reading in the regular college curriculum. While comprehension and vocabulary development are stressed, the student is also encouraged to analyze ideas and structure and to think critically about written materials. (Corequisite: DSS 0860)

DEVELOPMENTAL STUDIES II'

- DSC 0930—Developmental Chemistry I 3 Credits**
 A course designed for the student who does not have the background necessary for college level chemistry courses.
- DSC 0940—Developmental Chemistry II 3 Credits**
 This course is a continuation of Developmental Chemistry I.

- DSB 0980—Developmental Biology I** 3 Credits
A course designed for the student who does not have the background necessary for college level biology courses.
- DSB 0990—Developmental Biology II** 3 Credits
A continuation of Developmental Biology I.

¹Courses in Developmental Studies I or II cannot be used to satisfy the minimum number of hours required for graduation. Evidence of competencies in these areas are prerequisites for college courses numbered 1000 or above. Courses may be repeated only once and may not be dropped without approval of department head.

ECONOMICS

- ECO 2010—Principles of Economics I** 3 Credits
Conceptual framework of the free enterprise society. Quantitative description of the American economy, facts and figures. Economics of aggregates based on the national income accounting. Macroeconomic income determination, employment and price level. Introductory principles of money and banking. F, W, Sp
- ECO 2020—Principles of Economics II** 3 Credits
A continuation of economic principles with the special emphasis on microeconomics. An introduction to individual demand. Production planning and the related effect upon market structures, resource allocation, and income distribution; e.g., wages, rent, interest and profits. (Prerequisite: ECO 2010) W, Sp
- ECO 2030—Principles of Economics III** 3 Credits
A course in applied economics. Anti-trust laws, problems of trade unions and collective bargaining, important labor legislation. Economics of poverty in the United States. Public finance: the role of the government, principles of taxation shifting and incidence. International trade. Economics of underdeveloped countries, their trade problems, foreign aid. Economics of the collectivist economies. (Prerequisite: ECO 2020) Sp

EDUCATION

- EDU 1000—Orientation to College** 1 Credit
This course examines the different aspects of college that incoming students need to know. It deals with the use of the library, study skills, student services, the college catalog, and financial aid. (This course is a corequisite to ENG 1010) F, W, Sp, Su
- EDU 1010—Orientation to the Education of the Exceptional Child** 3 Credits
This course examines the educational and sociological basis for current educational practices. Site visits acquaint the student with services, settings, teacher and paraprofessional roles. Sp
- EDU 1110—Introduction to Early Childhood Education** 3 Credits
This course deals with the expanding field of early childhood education and care. Differentiation of teaching and supportive roles in early childhood programs is examined. Diverse program sites are visited. W
- EDU 2010—Introduction to Education** 3 Credits
A short survey of the field of education in which the history of American education, present philosophies of education, major problems of education, present practices and the school as a social institution are considered. F
- EDU 2210—Educational Psychology** 3 Credits
See course description under PSY 2210. F
- EDU 2410—Human Growth and Development** 3 Credits
Course examines human development with emphasis on growth, socialization and general characteristics of developmental stages from infancy through adolescence. The school, home and peer influences are studied. F
- EDU 2510-30—Trends and Issues in Education I, II, III** 3 Credits
These courses examine the trends and issues in education. They include an in-depth analysis of a particular topic, concern, or problem in education.

EDU 2810—Child Development from Infancy Through Age Eight 3 Credits

This comprehensive study of the child from infancy through eight years examines genetic, biological, social, motor, cognitive aspects of development with implications for early childhood education and related fields. (Laboratory observations required.) W

EDU 2820—Creative Activities and Experiences for Young Children 3 Credits

This course is a study of a creative curriculum for young children with emphasis on the teacher's role in aesthetic experiences in art, music, movement and rhythm. (Prerequisites: EDU 1110 or EDU 2810) Sp

EDU 2910—Prospective Teacher Cooperative Practicum I 3 Credits

EDU 2920—Prospective Teacher Cooperative Practicum II 3 Credits

This program is designed to provide the student and local school systems with a cooperative classroom experience. The college student will investigate the duties, responsibilities, and requirements of the teacher's aid profession. Each assigned classroom teacher will be involved with the evaluation of the student, as well as, the college instructor and administrator of the school. (Prerequisite: EDU 1110 or 2010 or permission of instructor) F, W, Sp

EDU 2930—Field Experiences in Early Childhood Education 3 Credits

Student is assigned a field placement in nursery, day care, kindergarten or primary grades. Observations, supervised case studies and problems of teachers, methods, materials and school organization are focuses of this course. (Prerequisites: EDU 2910, 20) F, W, Sp

**ENGINEERING TECHNOLOGY ELECTRICAL/
ELECTRONICS OPTION¹**

EET 1010—Electric Circuits I 3 Credits

A study of the fundamental principles of circuit analysis, including Ohm's law, Kirchoff's law, Thevinin and Norton's theorems, node and mesh equation analysis and power relations. The response of resistive, capacitive and inductive circuits to both AC and DC sources using phasor notation is also considered. F

EET 1015—Electric Circuits Lab I 1 Credit

(Laboratory to be taken concurrently with EET 1010) F
3 hours laboratory

EET 1020—Electric Circuits II 3 Credits

A continuation of EET 1010, Electric Circuits I. W

EET 1025—Electric Circuits Lab II 1 Credit

Laboratory verification of principles introduced in Electric Circuits I and II. (Laboratory to be taken concurrently with EET 1020) W
3 hours laboratory

EET 1110—Electric Circuit Fundamentals 3 Credits

A basic course designed for students with little or no electrical background. Familiarizes the student with the fundamentals of electricity (both AC and DC), electric circuits and electric devices. This course is for special students or students in programs other than electronics. Offered as needed.

EET 1210—Materials and Construction Practices 2 Credits

A laboratory course to familiarize the student with electronic hardware, hand tools and shop practices. Includes layout design of chassis and printed-circuit fabrication processes. (Prerequisite: EET 1320) F

1 hour lecture—3 hours laboratory

EET 1310—Electronics I 3 Credits

A study of electronic device characteristics, basic circuits and biasing techniques. Solid state devices are emphasized. (Prerequisite: EET 1010) W

EET 1315—Electronics Lab I 1 Credit

Laboratory to be taken concurrently with EET 1310. W
3 hours laboratory

EET 1320—Electronics II 3 Credits

Small signal amplifiers, class A, B, C power amplifiers and basic feedback circuits. (Prerequisite: EET 1310) Sp

EET 1325—Electronics Lab II 1 Credit

Laboratory to be taken concurrently with EET 1320. Sp
3 hours laboratory

- EET 1330—Electronics III** **3 Credits**
 A study of communication electronic circuits used in reception and transmission of modulated signals. (Prerequisite: EET 1320) F
- EET 1340—FCC License Preparation** **3 Credits**
 Preparatory course for those desiring to obtain their first or second class radio-telephone operators license or third class permit from the Federal Communications Commission. Technical questions similar to those on actual FCC examinations are studied, as well as, general and specific information on communications law and FCC rules and regulations. Designed for those who already have a working knowledge of electric circuits. (Prerequisite: EET 1110 or consent of instructor) Offered as needed.
- EET 1410—Electronics Drafting I** **2 Credits**
 Basic drafting practices, use of instruments, theory of projections, and freehand sketching. Methods and principles of graphically presenting electronic information. Covers the principles of circuit layout and introduces the student to electronic symbols employed in electronic circuit schematics. Offered as needed.
 1 hour lecture—3 hours laboratory
- EET 1420—Electronics Drafting II** **2 Credits**
 Continuation of EET 1410. (Prerequisite: EET 1410) Offered as needed.
 1 hour lecture—3 hours laboratory
- EET 1610—Electrical Systems Design I** **3 Credits**
 This course is a study of the design of electrical service systems for residential, commercial and industrial applications. The student will learn to design electrical systems in accordance with local and national electrical codes. Topics included will be an introduction to electrical codes, types of conductors and cables, safety grounding, overcurrent protection, branch circuits, estimate of loads, and equipment selection. The student will be given practical problems in the layout and design of electrical service systems for residential, commercial and industrial locations. (Prerequisite: EET 1020) F
- EET 1620—Electrical System Design II** **3 Credits**
 A continuation of Electrical Systems Design I with emphasis on advanced design problems. (Prerequisite: EET 1610) Offered as needed.
- EET 1630—Elements of Electrical Generation, Transmission and Distribution** **3 Credits**
 A study of the components of electrical power generation, transmission and generation, including transmission law theory and load flow studies. (Prerequisite: EET 1020) Sp
- EET 1635—Elements of Electrical Generation, Transmission, and Distribution Laboratory** **1 Credit**
 Experimental verification of principles introduced in EET 1630. Sp
 3 hours laboratory
- EET 1640—Electrical Wiring** **4 Credits**
 Basic principles and practice of modern electrical wiring for residential, commercial 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. F
 3 hours lecture—3 hours laboratory
- EET 2210—Electronics Project** **1 Credit**
 The student selects an electronics project: designs, fabricates and tests the finished project. (Prerequisite: EET 1210) Offered as needed.
 3 hours laboratory
- EET 2250—Special Topics in Electronics** **3 Credits**
 Subject areas in electronics selected by instructor, consistent with present needs of industry. (Prerequisite: EET 1320) Offered as needed.
- EET 2260—Electronic Troubleshooting** **4 Credits**
 A study in the techniques of locating malfunctions in television and other electronic systems in a logical manner. (Prerequisite: EET 1320) Sp
 3 hours lecture—3 hours laboratory
- EET 2310—Digital Electronics I** **3 Credits**
 Principles of digital logic theory and circuits. Presents such topics as number systems and codes, Boolean algebra, reduction techniques, and basic logic gates. Emphasis is placed on the ability to analyze the performance of a logic circuit and to carry a digital design problem from logic requirement to final logic device diagram. Sp

- EET 2315—Digital Electronics I Laboratory** **1 Credit**
Use of digital devices to implement and verify logic circuit performance as presented in lecture. (Laboratory to be taken concurrently with EET 2310) Sp
- EET 2320—Digital Electronics II** **3 Credits**
A continuation of Digital Electronics I with emphasis on combinational and arithmetic circuits such as flip-flops, counters, registers, and basic computer components. (Prerequisite: EET 2310) Sp
- EET 2325—Digital Electronics II Laboratory** **1 Credit**
Experimental verification of principles introduced in Digital Electronics II. (Laboratory to be taken concurrently with EET 2320) Sp
- EET 2510—Industrial Electronics and Control I** **3 Credits**
A study of circuits and circuit elements commonly used for power and control applications including electronic power supplies, phase shifting networks, time delay circuits, digital and analog control circuitry, and digital sequence controls with emphasis on relay circuitry. Control circuits using SCR's, triacs, OJT's and their triggering circuitry also covered. (Prerequisite: EET 1310) W
- EET 2515—Industrial Electronics and Control I Laboratory** **1 Credit**
Experimental verification of principles introduced in Industrial Electronics and Control I. (Laboratory to be taken concurrently with EET 2510) W
3 hours laboratory
- EET 2520—Industrial Electronics and Control II** **3 Credits**
A continuation of Industrial Electronics I. (Prerequisite: EET 2510) Sp
- EET 2525—Industrial Electronics and Control II Laboratory** **1 Credit**
Experimental verification of principles introduced in Industrial Electronics and Control II. (Laboratory to be taken concurrently with EET 2520) Sp
3 hours laboratory
- EET 2540—Commercial Electronic Systems** **3 Credits**
An examination of the widely employed electronic systems in a commercial environment. Including emergency power systems, security systems and fire and smoke detection systems. Offered as needed.
- EET 2550—Electrical Machinery** **3 Credits**
A study in the operational characteristics and practical applications of electric motors and generators with emphasis on operating parameters, loading effects, and interaction of machines. Control of machines using relays and static logic is also considered. (Prerequisite: EET 1020) Sp
- EET 2555—Electrical Machinery Lab** **1 Credit**
Experimental verification of principles introduced in Electrical Machinery. (Laboratory to be taken concurrently with EET 2550) Sp
3 hours laboratory
- EET 2560—Electrical Estimation and Pricing** **3 Credits**
A study of the estimation procedures for determining the cost of a wide variety of electrical installations in residential, commercial and industrial facilities. Offered as needed.
- EET 2610—Process Instrumentation and Controls I** **3 Credits**
Course to include process primary measurement techniques, signal conditioning, display techniques, measurement system configuration, automatic control systems, tuning automatic control systems for optimum response, direct digital control of processes. (Prerequisite: EET 1310)
- EET 2615—Process Instrumentation and Controls Lab I** **1 Credit**
- EET 2620—Process Instrumentation and Controls II** **3 Credits**
A continuation of Process Instrumentation and Controls I. (Prerequisite: EET 2610)
- EET 2625—Process Instrumentation and Controls Lab II** **1 Credit**

⁵Specialty courses in career education are not generally included in baccalaureate programs.

ENGINEERING TECHNOLOGY¹

- ERG 1030—Computer Aided Problem Solving** **3 Credits**
A practical study of the application of the computer for problem analysis, computation, and simulation in the engineering field. Use of the micro, mini, and mainframe computer will be studied and applied to typical engineering problems.
2 hours lecture—3 hours laboratory

- ERG 1050—Elementary Mechanics** **3 Credits**
 Statics of particles and rigid bodies resultants of force systems, vector algebra, equilibrium, friction, centers of gravity, centroids, and moments of inertia. (To be taken by special certificate students only) (Prerequisite: MAT 1110)
- ERG 1060—Fundamentals of Engineering Graphics I** **4 Credits**
 Basic drafting practices, the use of instruments, theory of projection, multiview projections, sketching and shape description. Sectional, auxiliary and oblique views, descriptive geometry and representation of the shape and size of three dimensional objects. F
 3 hours lecture—3 hours laboratory
- ERG 1070—Fundamentals of Engineering Graphics II** **4 Credits**
 Continuation of Fundamentals of Engineering Graphics I with experience in working drawings, projections other than orthographic, thread fasteners and springs, tolerancing and fits, gears and cams. Special drawing techniques, assemblies and details will be emphasized together with a special project. Offered as needed.
 3 hours lecture—3 hours laboratory
- ERG 1110—Applied Mechanics I** **3 Credits**
 Statics of particles and rigid bodies resultant of force systems, static equilibrium, friction, and moments. (Engineering Technology and certificate students only) W, Sp
- ERG 1120—Applied Mechanics II** **3 Credits**
 Dynamics of particles and rigid bodies, kinematics, kinetics, Newton's laws and impulse-momentum. (Prerequisite: ERG 1110) F
- ERG 1200—The Engineering Profession** **2 Credits**
 An introduction to the different disciplines and responsibilities in the engineering fields, how they apply to the solving of mankind's problems and advancement of technology in the service of mankind, the different levels of entry into these fields. Included is an introduction to engineering problem solving. This course should help the student to decide whether to pursue engineering as a profession.
- ERG 1210—Blue Print Reading and Sketching** **4 Credits**
 An interpretation of building plans and blueprints. Instructional material includes special problems. (Same as FST 2020) W
- ERG 1300—Applied Thermodynamics** **3 Credits**
 An introduction to the concepts of thermodynamics and its applicability to engineering. Work, heat, thermodynamic laws, etc. (Only engineering technology students are admitted) (Prerequisite: ERG 1110)
- ERG 2140—Computer Graphics** **4 Credits**
 An introduction to computerized drafting. The student will apply the graphic language to geometric statements, arithmetic statements and control statements in a computer language. (Prerequisite: ERG 1060)
- ERG 2150—Computer Aided Design I** **4 Credits**
 The utilization of the micro, mini, and mainframe computer in the design and drafting process. Applications include architectural, civil, electrical, mechanical, and printed circuit design. (Prerequisite: ERG 1060)
 3 hours lecture—3 hours laboratory
- ERG 2160—Computer Aided Design II** **4 Credits**
 A continuation of Computer Aided Design I with emphasis on advanced CAD software and hardware systems, user defined menus, and specialized requirements. (Prerequisite: ERG 2150)
 3 hours lecture—3 hours laboratory
- ERG 2170—Materials Estimating** **3 Credits**
 The preparation of a bill of materials for a set of working drawings for an architectural or mechanical project. Emphasis is placed on the methodology of preparing a detailed estimate of materials, labor and specifications of projects. A typical architectural estimate would cover a residential structure while adhering to the CSI uniform filing system; a typical mechanical estimate would adhere to ANSI standards.
- ERG 2210—Strength of Materials** **3 Credits**
 Stress; strain; Hooks's Law; extension, torsion, and bending of bars; plastic action. (Prerequisite: ERG 1050 or ERG 1110) Sp
- ERG 2310—Fluid Mechanics** **3 Credits**
 Properties of fluids, fluid statics, and fluid flow are covered. (Prerequisite: ERG 2020)

- ERG 2410—Surveying I** **4 Credits**
Introduction to surveying, chaining and pacing, direct and profile leveling, measurements of angles, transit-tape-traversing, traverse analysis, calculation of areas, adjustment of instruments. (Corequisite: MAT 1110) F
- ERG 2420—Surveying II** **4 Credits**
Basic complex circular curves, stadia surveying, topographic surveying analysis and preparation of topographic maps. Field work parallels classroom instruction. Sp
3 hours lecture—3 hours laboratory
- ERG 2430—Route Surveying and Highway Design** **3 Credits**
Principles of route surveying; simple, compound and transition curves; grades and transition curves; grades and vertical curves; earthwork and haul quantities. Sp
- ERG 2700-2750—Independent Engineering Investigation** **3 Credits**
Independent research and development in engineering by qualified students under the supervision of a faculty member. Intended to develop interest and skill in the techniques of engineering research and development. Transfers as elective credit only. (Consent of the faculty member is required) F, W, Sp, Su

*Specialty courses in career education are not generally included in baccalaureate programs.

ENGINEERING SCIENCE

- ESC 2010—Engineering Mechanics I** **3 Credits**
Statics of particles and rigid bodies resultants of force systems, static equilibrium, friction, and moments. (Prerequisite: MAT 2610) (Corequisite: PHY 2110) (Transfer students only) F
- ESC 2020—Engineering Mechanics II** **3 Credits**
Dynamics of particles and rigid bodies, kinematics, kinetics, Newton's laws, and impulse-momentum. (Prerequisite: ERG 2010) (Transfer students only) W
- ESC 2110—Thermodynamics** **3 Credits**
Work and kinetic energy; temperature; heat; first law of thermodynamics. (Prerequisite: MAT 2610) Sp

ENGLISH

- ENG 1010—Composition I** **3 Credits**
Emphasis on language and thought. Narrative, descriptive, expository and argumentative writing. (Prerequisites: Basic grammar, punctuation, and paragraphing skills) F, W, Sp, Su
- ENG 1020—Composition II** **3 Credits**
Writing Across the Curriculum. Writing as applicable to humanities, social science, science, business, technology and education. Research paper required. (Prerequisite: ENG 1010) F, W, Sp, Su
- ENG 1030—Composition III** **3 Credits**
Writing about literature. Composition based on fiction, drama, and poetry. (Prerequisite: ENG 1020) F, W, Sp, Su

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** **3 Credits**
Survey of world literature including the Bible, Greek and Roman classics, Dante, Chaucer, Cervantes, and Milton. (Prerequisite: ENG 1030) F, Su
- ENG 2120—World Literature II** **3 Credits**
Survey of world literature from the Renaissance through the Romantic period. Emphasis on Shakespeare, Moliere, Voltaire, Swift, Goethe, and the Romantic Poets. (Prerequisite: ENG 1030) W, Su
- ENG 2130—World Literature III** **3 Credits**
Realism in fiction. Modern poetry and drama. Emphasis on Dostoevsky, Tolstoy, Ibsen, Yeats, Shaw, Sartre, and Solzhenitsyn. (Prerequisite: ENG 1030) Sp, Su
- ENG 2140—American Literature I** **3 Credits**
Colonial through 1900. Authors such as Hawthorne, Thoreau, Whitman, Dickinson and Twain. (Prerequisite: ENG 1030) W, Su

- ENG 2160—American Literature II** 3 Credits
 Twentieth-century literature. Authors such as Frost, Eliot, Hemingway and Faulkner. (Prerequisite: ENG 1030) F, Sp
- ENG 2810—Creative Writing** 3 Credits
 Theory and practice of the creation of fiction, drama and poetry by the analysis of models and student manuscripts. W
- ENG 2820—Technical Writing** 3 Credits
 An intensive study in the principles of exposition and practice in writing letters, technical reports, outlines, abstracts and a research paper related to the student's field of specialization. (Prerequisite: ENG 1010) F, W, Sp, Su

FIRE SCIENCE TECHNOLOGY¹

- FST 1010—Introduction to Fire Science** 3 Credits
 A course to acquaint the students with the broad field of Fire Science. Emphasis on some of the problems of the Fire Service with potential or possible solutions. F
- FST 1030—Industrial Safety** 3 Credits
 An introduction to safety in business and industry including the basic philosophy and development of safety programs, accident prevention and investigation methods, safety analysis skills and study of OSHA.
- FST 1040—Fundamentals of Fire Prevention** 3 Credits
 Principles and application of fire prevention related to the community and industrial plants. The development and maintenance of fire prevention programs, educational programs and fire prevention research. Specific applications of related disciplines to fire prevention problems. F
- FST 1050—Personal Fire and Life Safety** 3 Credits
 Review of personal fire and life safety problems as they affect the individual at home, work and social activities. Means of preventing fires and safeguarding devices related to the various disciplines are covered. Primarily for Non-Fire Science Majors. Sp
- FST 1060—Industrial Hazards** 3 Credits
 A course to acquaint the student with safety and fire hazards in various types of industries. Explores the basic philosophy of safety, hazard and accident prevention programs, policies and procedures and compliance with requirements of OSHA. Explores techniques employed in controlling emergency situations in industries. F
- FST 1110—Construction Codes and Fire Protection Standards** 3 Credits
 A study of fire codes and standards. The course includes a study of safety and building construction standards. The Life Safety Code and the Standard Building Code are studied in depth. W
- FST 1120—Environmental Technology** 3 Credits
 See course description for GGY 1040.
- FST 2010—Fire Fighting Strategy** 3 Credits
 A course illustrating the physical and chemical aspects of fire suppression technology. The student will pursue a detailed study of the chemistry of fire, along with modern methods of fire suppression, tactical decisions and post fire analysis. (Prerequisite: FST 1010 or consent of instructor) W
- FST 2020—Blueprint Reading and Sketching** 4 Credits
 See course description for ERG 1210. W, Su
- FST 2040—Arson Detection and Investigation** 3 Credits
 Determination of cause of accidental and incendiary fire, fire losses and loss of records, points of origin, location and preservation of evidence and scientific aids to investigation. Courtroom procedure in presenting evidence. Motives and methods of fire setting and investigative methods are covered. F, Sp
- FST 2060—Fire Protection Law** 3 Credits
 A study of law in relation to fire protection. Torts, terms and contracts studied by case method. Liability of fire protection personnel when making inspections, recommendations, fighting fires and other tasks. Pertinent laws, ordinances and codes and the responsibility and powers of the individual or organization concerning enforcement. Sp
- FST 2090—Instructor Training** 3 Credits
 The principles of learning and teaching as applied to municipal and industrial fire and safety tasks. The analysis of training needs, course development, lesson plans and teaching techniques. Study of audio-visual equipment and materials. This course exceeds the National Fire Protection Association Standard for Instructor Level I and covers elements of Level II. F, Sp

- FST 2110—Inspection Principles and Practices** **4 Credits**
 The course includes the development and philosophy of fire inspection. Emphasis is on inspection techniques and the development of technical inspection reports. (Prerequisite: FST 1110.) Sp
 3 hours lecture—3 hours laboratory
- FST 2120—Principles of Hydraulics** **3 Credits**
 Surveys the basic laws of hydraulics. Includes a study of the fundamentals of pressures and measurements. Reviews related math and pertinent theorems and formulas. F
- FST 2210—Hazardous Materials** **3 Credits**
 Study of chemical characteristics and reactions related to storage, transportation, handling hazardous materials (i.e., flammable liquids, combustible solids, oxidizing and corrosive materials, and radioactive compounds). Emphasis on emergency situations and fire fighting and control. F
- FST 2220—Water Distribution** **3 Credits**
 A study in applying the principles of hydraulics to fire protection problems. Attention is also given to industrial, municipal and rural water supply problems. (Prerequisite: FST 2120.) W
- FST 2230—Water Suppression Systems** **3 Credits**
 Study of the standards for water supplies and water suppression systems including standpipe and sprinkler systems. Emphasis is on design, inspection and maintenance. (Prerequisite: FST 2220 or consent of instructor) Sp
- FST 2510—Fire Protection Equipment and Systems** **3 Credits**
 A study of the design, inspection and maintenance of fixed fire suppression systems including foam, dry chemical, carbon dioxide, halon, explosion. A study of automatic signaling and detection systems. (Prerequisite: FST 1010 or consent of instructor) Sp
- FST 2610—Fire Department Administration** **3 Credits**
 A detailed study of the Fire Department Organization. Includes fire company organization; the company officer (duties, responsibilities, leadership, supervision); company personnel administration; company communications; company maintenance and training; records and reports; and problem solving. (Prerequisite: FST 1010 or consent of instructor) W
- FST 2620—Seminar** **3 Credits**
 A course designed to consolidate the various learning experiences in fire fighting. Emphasis is placed on special problems. Sp
- FST 2700—Practicum** **2 Credits**
 Practical experience is provided for each student through cooperative agreements with local fire stations. Emphasis is placed on the day-to-day activities of firemen. Offered as needed.

¹Courses in this program are designed to transfer ONLY to specialized programs.

FRENCH

- FRE 1010—Beginning French I** **3 Credits**
 (No prerequisite) F
- FRE 1020—Beginning French II** **3 Credits**
 (Prerequisite: FRE 1010) W
- FRE 1030—Beginning French III** **3 Credits**
 Elementary grammar, pronunciation and conversation through use of films, videotapes, cassette tapes, filmstrips and computer programs. Laboratory required. (Prerequisite: FRE 1020) Sp
- FRE 2010—Intermediate French I** **3 Credits**
 (Prerequisite: FRE 1030) F
- FRE 2020—Intermediate French II** **3 Credits**
 (Prerequisite: FRE 2010) W
- FRE 2030—Intermediate French III** **3 Credits**
 Advanced grammar and conversation through use of films, videotapes, cassette tapes, filmstrips, computer programs and library readings. Laboratory required. (Prerequisite: FRE 2020) Sp

GEOGRAPHY

- GGY 1010—Physical Geography I** **3 Credits**
 (Atmospheric Environment)
 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. (No credit is given to any student who has successfully completed NSC 1520) F
- GGY 1020—Physical Geography II** **3 Credits**
 (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 credit is given to any student who has successfully completed NSC 1230 or any geology course) (No prerequisite) W
- GGY 1030—Concepts in Human Geography** **3 Credits**
 A study of the major organizing concepts and their applications in the different subfields of human geography including regional analysis, population, political, cultural, urban and economic geography. Attention is given to analysis of current world problems and issues. As needed.
- GGY 1040—Environmental Technology: Conservation of Resources** **3 Credits**
 This course analyzes the impact of human activities upon systems in nature. Special attention is given to conservation resources management, principles, soils, water and wildlife. (Same as FST 1120) As needed.
- GGY 2110—World Regional Geography I** **3 Credits**
 A geographic survey of North America with particular emphasis upon current regional problems. As needed.
- GGY 2120—World Regional Geography II** **3 Credits**
 A geographic survey of South America and Europe which seeks to broaden perspectives regarding the world and its peoples. As needed.
- GGY 2130—World Regional Geography III** **3 Credits**
 A geographic survey of the Middle East, Africa, Asia and Australia which seeks to broaden perspectives regarding the world and its peoples. As needed.
- GGY 2210—Introduction to Economic Geography** **3 Credits**
 A study of concepts and theories pertaining to agricultural, mining, manufacturing, transportation, and service activities as they relate to contemporary economic life. As needed.

GEOLOGY

The geology sequence offers students another branch of science with which to fulfill curriculum requirements and will provide the necessary background in geology in the Mining Technology program.

- GEO 1610—Physical Geology I** **3 Credits**
 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. F
 3 hours lecture—3 hours laboratory
- GEO 1620—Physical Geology II** **4 Credits**
 The study of geologic processes in landform development. Topics include: groundwater; wind and water erosion; deposition; glaciation; regional geomorphic features. Current problems in economic and environmental geology are discussed. W
 3 hours lecture—3 hours laboratory
- GEO 1630—Historical Geology** **4 Credits**
 The study of the earth's history, physical and biological, as interpreted from the rock and fossil records. Topics include: stratigraphy; paleontology; evolution of the North American continent; origin of the earth. Sp
 3 hours lecture—3 hours laboratory

GERMAN

- GRN 1010—Beginning German I** **3 Credits**
 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) F
- GRN 1020—Beginning German II** **3 Credits**
 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) W
- GRN 1030—Beginning German III** **3 Credits**
 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) Sp
- GRN 2010—Intermediate German I** **3 Credits**
GRN 2020—Intermediate German II **3 Credits**
GRN 2030—Intermediate German III **3 Credits**
 Reading intermediate texts, grammar review, and oral practice. (Prerequisite: GRN 1030 or equivalent) (Laboratory required) 2010-F, 2020-W, 2030-Sp

HEALTH

- HEA 2210—Personal Health** **3 Credits**
 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. F, W, Sp
- 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. F, W, Sp
- 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 essential to wholesome living. F, W, Sp

HEALTH PHYSICS TECHNOLOGY¹

- HPT 2010—Instrumentation and Measurement** **4 Credits**
 This course is designed to teach the concepts of measurement as it relates to radiation. Specialized instrumentation will be described and used in sample taking.
 3 hours lecture—3 hours laboratory
- HPT 2020—Safety and Emergency Procedures** **3 Credits**
 This course is designed to teach the safe procedures which should be followed. It also covers the procedures which should be followed in emergency situations. Federal regulations in the health physics field are also covered.
 2 hours lecture—3 hours laboratory
- HPT 2040—Radiation Analysis** **4 Credits**
 This course is designed to give experience in the identification of types and amounts of radiation.
 3 hours lecture—3 hours laboratory
- HPT 2060—Radioactive Waste Management** **4 Credits**
 Teaches the factors which affect the processing, handling, storage, transportation and disposal of waste.
 3 hours lecture—3 hours laboratory
- HPT 2110—Health Physics Internship** **6 Credits**
 This work experience is designed to familiarize the student with application of health physics principles while working on the job. Effort will be made to place students in an area which supports their career goals. (A minimum of 300 contact hours)

¹Specialty Courses in Career Education are not generally included in baccalaureate programs.

HISTORY

- HIS 1010—Survey of Western Civilization I** 3 Credits
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. F
- HIS 1020—Survey of Western Civilization II** 3 Credits
Western civilization from the mid 16th century beginning with the Wars of Religion to 1860. W
- HIS 1030—Survey of Western Civilization III** 3 Credits
Western civilization from 1860 to the present. Sp
- HIS 2110—Survey of American History I** 3 Credits
European origins of American civilization, severance of European ties, national growth, democratic expansion and sectional patterns to 1840. F, W, Sp, Su
- HIS 2120—Survey of American History II** 3 Credits
National and sectional developments: causes and results, Manifest Destiny, War Between the States, rise of industrialism, rise of imperialism, c 1840-1900. F, W, Sp, Su
- HIS 2130—Survey of American History III** 3 Credits
Emergence of United States as a world power, the growth of federal power and democratic expansion, 1900-present. F, W, Sp, Su

HUMANITIES

- HUM 2800-2899—Humanities Seminar** 3 Credits
This course is designed for those students who are interested in pursuing an in-depth study of some particular humanities problem. F, W, Sp, Su

Note: Any courses taught in the Humanities will fulfill humanities elective requirements—art, music, journalism, foreign language or philosophy.

INSURANCE¹

- INT 1010—Principles of Insurance** 3 Credits
Economic, social and historical background of insurance. Types, scope and organization of insurance companies. Basic forms of property and liability life insurance and annuities.
- INT 1110—Basic Life and Health Insurance** 3 Credits
Basic study of instruments used in personal, group, and social insurance. Analysis of risks of economic loss and policy holder protection through utilization of various policy types, riders, contracts and state regulations.
- INT 1120—Basic Property Insurance** 3 Credits
Coverages, policy provisions and concepts common to the standard fire policy and related forms allied fire lines and inland marine coverages. Burglary, theft, robbery, casualty-property, homeowners policies, business interest, underwriting and regulations. Experience modification in Workman's Compensation and other contemporary rate making methods.
- INT 1130—Basic Casualty Insurance** 3 Credits
Detailed analysis of casualty hazard services, development, meaning and legal characteristics. Contracts of automobile types, inland and ocean marine and other general personal, liability contract forms.
- INT 2110—Advanced Life and Health Insurance** 3 Credits
Surveys estate and tax planning, trusts, wills and business uses of life and health insurance, social insurance, public assistance and personal risks. Types of individual and group insurance plans and their applicability in employee benefit plans.
- INT 2120—Advanced Property Insurance** 3 Credits
Underwriting Agency Company relationships, loss appointment to include fire rating analysis, CPC coverage, manufacturer's output PIP, rating principles and multiple location-composite HPR.
- INT 2130—Advanced Casualty Insurance** 3 Credits
Emphasis on pricing differentials through use of experience, schedule, composite and retrospective rating.

¹Specialty courses in career education are not usually included in baccalaureate programs.

JOURNALISM

- JRN 1110—Introduction to Mass Communications** 3 Credits
 A survey course of contemporary mass communications media and agencies: newspapers, magazines, radio, television, film, advertising, public relations, the recording industry, press associations and specialized publications. Emphasis is on the content of the mass media and the effects the media have on society and individual citizens. F
- JRN 1510—Journalism Practicum I** 1 Credit
JRN 1520—Journalism Practicum II 1 Credit
JRN 1530—Journalism Practicum III 1 Credit
 Laboratory courses offering practical experience for students working on the student newspaper, yearbook, other campus publications and off-campus publications. Each course carries one hour credit, and students may earn up to six credits by enrolling for one course each quarter. F, W, Sp, Su
- JRN 2210—Writing for Mass Media** 3 Credits
 A general course in writing for major types of mass communications media, with emphasis on news reporting. (Prerequisite: JRN 1110 and typing proficiency or permission of instructor) W
- JRN 2215—Basic News Writing** 4 Credits
 Information gathering and writing techniques with deadline pressure. Included in the course will be techniques of interviewing, observation and speech reporting for both print and broadcast media, although, emphasis will be given to print media.
- JRN 2220—Reporting** 4 Credits
 Methods of gathering and reporting facts for mass media. Emphasis is on news and news features. Three hour class plus practical assignments which might include work for the campus newspaper. (Prerequisite: JRN 2210 or permission of instructor) Sp
- JRN 2230—Editing for Mass Media** 3 Credits
 Copyreading methods and practice in editing copy for print and broadcast media with emphasis on different types of copy and refinement of writing skills. Assignments might include practical work for the campus newspaper. (Prerequisite: JRN 2220 or permission of instructor) Sp
- JRN 2510—Supervised Publications Work I** 1 Credit
JRN 2520—Supervised Publications Work II 1 Credit
JRN 2530—Supervised Publications Work III 1 Credit
- JRN 2750—Introduction to Broadcasting** 3 Credits
 A broad, basic course covering organization, comparative systems, regulatory and technical aspects of the broadcasting industry. Sp

MATHEMATICS

The State Board of Regents, governing board of Roane State Community College, has endorsed a provision aimed at strengthening mathematics in the System institutions. This provision states that the mathematics course taken to fulfill the requirement for graduation, as stipulated policy, must carry high school prerequisites of either two years of algebra or one year of algebra and one year of geometry.

- MAT 1110—Introduction to Analysis I** 3 Credits
 Sets, real numbers, algebraic expressions and operations, equations, inequalities, relations, functions, graphs. (Prerequisite: 2 years high school algebra or 1 year high school algebra and 1 year high school geometry) F, W, Sp, Su
- MAT 1120—Introduction to Analysis II** 3 Credits
 Average rates, differentiation, integration, applications. (Prerequisite: MAT 1110) W, Sp, Su
- MAT 1130—Introduction to Analysis III** 3 Credits
 Systems of linear equations and inequalities, matrices, simple and compound interest, exponential and logarithmic functions. A calculator with trig and log functions will be needed by the student. (Prerequisite: MAT 1110) Sp, Su

- MAT 1210—Trigonometry** 3 Credits
 Analysis of functions of angles with their relations, logarithms, and solution of right and general triangles. A calculus sequence student who is lacking in trigonometry background is strongly advised to take this trigonometry course either before or concurrent with MAT 2620. A calculator with trig and log functions will be needed by the student. (Prerequisite: 2 years of high school algebra and the consent of instructor) F, W
- MAT 1310—Symbolic Logic** 3 Credits
 Logical symbolism, truth tables, propositional calculus, properties of formed systems. (Prerequisite: Two years of high school algebra or 1 year high school algebra and 1 year high school geometry.) F
- MAT 1500—Pre-Calculus** 5 Credits
 Designed primarily for students planning to enter calculus, but needing more mathematical background. Topics include the algebra of functions, trigonometric functions, inequalities, systems of equations, binomial theorem. A calculator with trig and log functions will be needed by the student. (Prerequisite: two years high school algebra or MAT 1030) F, W, Sp
- MAT 2310—Concepts of Mathematics I** 3 Credits
 Sets, language and rules for operation, history of early number systems, relations and functions, the system of whole numbers. Only students who are elementary and secondary education majors should take this course. (Prerequisite: two years high school algebra or one year high school algebra and one year high school geometry) F
- MAT 2320—Concepts of Mathematics II** 3 Credits
 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) W, Su
- MAT 2330—Concepts of Mathematics III** 3 Credits
 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) Sp
- MAT 2510—Elementary Statistics I** 3 Credits
 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: two years high school algebra or the equivalent college level algebra courses) F, W, Sp
- MAT 2520—Elementary Statistics II** 3 Credits
 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 1040 or CST 2210, or equivalent) Sp
- MAT 2550—Probability and Statistics** 3 Credits
 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 1120 or 2610) Sp
- MAT 2610—Calculus and Analytic Geometry I** 5 Credits
 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) F, W
- MAT 2620—Calculus and Analytic Geometry II** 5 Credits
 Application of the definite integral, transcendental functions, integration, determinants and linear equations. (Prerequisite: MAT 2610) F, Sp
- MAT 2630—Calculus and Analytic Geometry III** 5 Credits
 Plane Analytic Geometry, hyperbolic functions, polar coordinates, vectors and parametric equations. (Prerequisite: MAT 2620) F, Sp
- MAT 2640—Calculus and Analytic Geometry IV** 5 Credits
 Solid Geometry and vectors, partial differentiation, multiple integrals and infinite series. (Prerequisite: MAT 2630) W

- MAT 2650—Linear Algebra** 3 Credits
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) F
- MAT 2700-2709—Independent Study** 3 Credits
Independent study in mathematics by qualified students under the supervision of a faculty member. Especially designed to introduce student to techniques of mathematical research. Up to nine credit hours may be earned. (Prerequisite: MAT 2620 and consent of the instructor) F, W, Sp, Su
- MAT 2710—Differential Equations** 5 Credits
A study of the solution of ordinary differential equations, first order equations, linear equations of any order, series solutions and applications. (Prerequisite: MAT 2630) Sp

MEDICAL LABORATORY TECHNOLOGY¹

- MLT 1110—Introduction to Laboratory Technicians** 4 Credits
An introductory course which includes objectives and goals of Medical Laboratory Technology, orientation to the health-care team, operation of the clinical laboratory, medical terminology and medical ethics. Emphasis is also placed on urinalysis, blood-collection techniques, and basic hematology. (Prerequisite: Permission from Program Director) F, Sp
- MLT 2010—Fundamentals of Clinical Chemistry I** 4 Credits
A study of the principles and techniques of clinical chemistry with emphasis on laboratory math, instrumentation, quality control and methods for the quantitative analysis of chemical constituents of diagnostic importance. (Prerequisites: CHE 1130, MLT 1110) F
- MLT 2020—Fundamentals of Clinical Chemistry II** 4 Credits
A study of the principles and techniques of clinical chemistry with emphasis on kidney function, liver function, endocrine function, and pediatric chemistry. (Prerequisite: MLT 2010) W
- MLT 2210—Hematology** 4 Credits
The study of principles and techniques of hematology. This includes the formation and maturation of blood cells, function of blood cells, coagulation studies, and cerebrospinal fluid studies. Emphasis is also placed on the disease states of blood. The laboratory will cover basic techniques including blood cell and platelet counts, hemoglobin, hematocrit, blood cell morphology, and coagulation. (Prerequisite: MLT 1110) W
- MLT 2310—Diagnostic Microbiology I** 5 Credits
A study of disease-producing microorganisms in man. Bacteria, fungi and rickettsia are studied with emphasis on isolation, handling of specimens, identification, drug sensitivity testing and quality control. (Prerequisites: BIO 2510, MLT 1110) Sp
- MLT 2420—Diagnostic Microbiology II** 4 Credits
Basic principles of antigen and antibody reactions with emphasis on basic serologic methods for the detection of infectious disease. Emphasis is also placed on methods for identifying parasites which are pathogenic to man. (Prerequisite: MLT 1110) F
- MLT 2610—Immunohematology** 4 Credits
The study of the blood group antigens with emphasis placed on the ABO and RH-group systems. The course will also include component preparation, donor selection, transfusion reactions and immuno-globulin work-up on newborns and mothers. The laboratory includes ABO and Rh typing, compatibility testing and antibody screening. (Prerequisite or Corequisite: MLT 2420) F
- MLT 2910—Basic Clinical Education I** 4 Credits
Clinical experience in a hospital laboratory covering serology and urinalysis with a seminar presenting current medical laboratory topics. (Prerequisites: MLT 2020, 2210, 2310, 2420, 2610) As needed.
- MLT 2920—Basic Clinical Education II** 4 Credits
Clinical experience in a hospital laboratory covering coagulation and blood gas analysis with a seminar presenting current medical laboratory topics. (Prerequisites: MLT 2020, 2210, 2310, 2420, 2610) As needed.
- MLT 2930—Clinical Chemistry** 6 Credits
Clinical experience in a hospital laboratory covering clinical chemistry. (Prerequisites: MLT 2020, 2210, 2310, 2420, 2610) As needed.
- MLT 2940—Clinical Hematology** 6 Credits
Clinical experience in a hospital laboratory covering clinical hematology. (Prerequisites: MLT 2020, 2210, 2310, 2420, 2610) As needed.

- MLT 2950—Clinical Immunohematology** **6 Credits**
 Clinical experience in a hospital laboratory with emphasis placed on compatibility testing. (Prerequisites: MLT 2020, 2210, 2310, 2420, 2610) As needed.
- MLT 2960—Clinical Microbiology** **6 Credits**
 Clinical experience in a hospital microbiology laboratory with emphasis on bacteriology and parasitology. (Prerequisites: MLT 2020, 2210, 2310, 2420, 2610) As needed.

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MEDICAL RECORD TECHNOLOGY¹

- MRT 1010— Medical Records I** **3 Credits**
 Introduction to the history of medicine, the hospital and medical records. Lecture and classroom laboratory experience which will enable the student to be familiar with the purposes, content and uses of the medical record. Laboratory practice in the analysis and assembly of medical records. (Prerequisite: Permission from Program Director) (Corequisite: ALH 1010) (BIO 2310 is a Prerequisite or Corequisite) F
 2 hours lecture—3 hours laboratory
- MRT 1020—Medical Records II** **3 Credits**
 Introduction to the disease and operation classification systems and to SNDO as a disease nomenclature. Lecture and laboratory experience in coding and indexing by ICD-9-CM. (Prerequisite: MRT 1010) (Corequisite: ALH 1020) (BIO 2320 is a Prerequisite or Corequisite) W
 2 hours lecture—3 hours laboratory
- MRT 1030—Medical Records III** **3 Credits**
 Orientation to the methods of numbering and systems of filing used in the medical record department. Lecture and laboratory practice in the methods of compiling hospital statistics, both, manually and by computer. Laboratory practice in computing rates and percentages and computer abstracting. (Prerequisite: MRT 1020) (Corequisites: MRT 1040, 1230) (BIO 2330 is a Prerequisite or Corequisite) Sp
 2 hours lecture—3 hours laboratory
- MRT 1040—Legal Aspects of Medical Records** **3 Credits**
 To provide the student a foundation in federal and state legislation regarding medical record release, retention, authorizations and consents. The medical record in court and the mediological importance of accurate documentation will be presented. (Prerequisite: MRT 1020) (Corequisites: MRT 1030, 1230) (BIO 2330 is a Prerequisite or Corequisite) Sp
- MRT 1050—Medical Record Practicum** **1 Credit**
 Orientation to a hospital medical record department under the supervision of a Medical Record Practitioner in an area hospital. Students will be oriented to the admitting office, emergency room and medical record department. Practice will include chart assembly and analysis, filing and patient index.
 30 hours clinical experience
- MRT 1230—Medical Transcription** **3 Credits**
 Additional study in medical terminology in conjunction with medical transcription. Practice transcription will include X-ray reports, medical history, physicals and summaries plus operative reports. Emphasis will also be given to the management of the steno pool and equipment selection. (Corequisites: MRT 1030, 1040) (Prerequisite: ALH 1020) Sp
 2 hours lecture—3 hours laboratory
- MRT 2310—Directed Practice I** **3 Credits**
 Actual practice in an area hospital. Topics covered include chart assembly and analysis, release of information, statistics, coding and abstracting.
 90 hours clinical experience
- MRT 2320—Directed Practice II** **3 Credits**
 Hospital experience in Utilization Review, Medical Care Evaluation Studies, Hospital Committee Functions and Department Supervision. (Prerequisite: MRT 2320) (Corequisite: MRT 2420) W
 90 hours clinical experience
- MRT 2330—Directed Practice III** **3 Credits**
 Experience in health care institutions other than the acute care hospital such as psychiatric facilities, long-term care facilities and veterinary facilities. (Prerequisite: MRT 2320) (Corequisite: MRT 2430) Sp
 90 hours clinical experience

- MRT 2110—Trends in Medical Records 3 Credits**
Emphasis is placed on new federal legislation affecting health care delivery, Utilization Review procedures and Medical Care Evaluation Studies. (Prerequisite: MRT 1030) (Corequisite: MRT 2320) F
- MRT 2120—Advanced Medical Record Procedures 3 Credits**
Introduction to hospital committee functions and procedures, accreditation and certification standards, microfilm and record retention, extended care facility records and medical record department supervision. (Corequisite: MRT 2320) (Prerequisite: MRT 2110) W
- MRT 2430—Medical Record Seminar 3 Credits**
Introduction to the Problem Oriented Medical Record and Tumor Registry. Emphasis is placed upon individual research projects performed by the students and then presented to the group for evaluation. (Corequisite: 2330) Sp

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MINI/MICROCOMPUTER TECHNOLOGY¹

- MCT 1100—Introduction to Minicomputers 3 Credits**
Introduces the student to the basic organization and operation of a digital computer. Includes an introduction to computer logic hardware and software, movement of data within a computer, identification of major hardware components and their interaction, concepts of programming, as well as, the basic structure and applications of computer systems. F
- MCT 1210—Machine/Assembly Language Programming 3 Credits**
An introduction to computer instruction repertoire. Student develops understanding of machine language instructions and programming through hands-on use of the computer for program execution. An analysis of assembly language programming and analysis of one and two pass assemblers is included. (Prerequisite: MCT 1100) W
- MCT 1810—Pulse and Switching Circuits 3 Credits**
The student completes laboratory exercises designed to emphasize lecture material through the design, construction and evaluation of pulse circuits. (Lab to be taken concurrently with MCT 1810) Sp
3 hours laboratory
- MCT 2000—Computer Service Internship 3 Credits**
Student works with computer service technician to gain practical, on-the-job experience in computer servicing and maintenance. Periodic reports will be made to advisor from both student and service technician. Credit hours depend on number of field contact hours. (Student must have conference with MCT advisor before registering for the course.) Su
- MCT 2110—Data Communications I 3 Credits**
A comprehensive analysis of the physical elements, system devices, and procedures which are involved in the transmission and reception of data in a data communication system. Topics studied include communication channels, transmission modes, line conditioning, modem and modulation techniques, serial communication interfaces, communication processors, data link configurations, information codes and protocols. (Prerequisite: MCT 1100) W
- MCT 2210—Operating Systems 3 Credits**
A study of the interrelationships of hardware and software at the system level and the functional operation and utilization of compilers, operating systems and user-type programs. Emphasis is placed on the ability to discern between hardware and software faults and the use of operating systems and customer software to debug hardware sourced faults in systems. (Prerequisite: MCT 1100 or consent of instructor) F
- MCT 2310—Digital Circuits 3 Credits**
Principles of digital logic theory and circuits. Presents such topics as number systems and codes, Boolean algebra, reduction techniques and basic logic gates. Emphasis is placed on the ability to analyze the performance of a logic circuit and to carry a digital design problem from logic requirement to final logic device diagram. Sp
- MCT 2315—Digital Circuits Lab 1 Credit**
Use of digital devices to implement and verify logic circuits performance as presented in lecture. (Lab to be taken concurrently with MCT 2310) Sp
3 hours laboratory

- MCT 2350—Computer Architecture** **3 Credits**
 An in-depth study of the design and organization of the computer processor with emphasis on minicomputers. Areas of study include arithmetic and logic unit, timing and control, memory elements, bus characteristics and I/O operation and control. (Prerequisite: MCT 1210, MCT 2310 or EET 2310) F
- MCT 2355—Computer Architecture Lab** **1 Credit**
 Lab sessions emphasize and enforce lecture topics, as well as, initiating the development of troubleshooting techniques. (Lab to be taken concurrently with MCT 2350) F
 3 hours laboratory
- MCT 2410—Peripherals I** **3 Credits**
 A study of the architecture and functional operation of computer peripherals of the card stock, paper and visual media, such as card and paper tape readers and punches, console writers, TTY's and display terminals. Emphasis will be on the processor/peripheral control dialogue and data transfer. (Prerequisite: MCT 2350) W
- MCT 2415—Peripherals I Lab** **1 Credit**
 Lab sessions provide practice in electromechanical alignment and troubleshooting techniques. (Lab to be taken concurrently with MCT 2410) W
 3 hours laboratory
- MCT 2420—Peripherals II** **3 Credits**
 A study of the architecture and functional operation of mass storage and direct memory access devices including magnetic drums, disk and tape units. The function of I/O programming and control will be emphasized. (Prerequisite: MCT 2350) W
- MCT 2425—Peripherals II Lab** **1 Credit**
 Provides practical experience in the maintenance and troubleshooting of peripheral devices under analysis. (Lab to be taken concurrently with MCT 2420) W
 3 hours laboratory
- MCT 2510—Computer Interfacing** **4 Credits**
 A study of devices and methods used in computer interfacing and data acquisition. The course examines the characteristics and design requirements for hardware interfaces to the computer at both the block diagram and circuit component level. Topics also covered include signal conditioning, A/D and D/A conversion techniques and sample and hold circuits. Emphasis is placed on practical applications. Lab exercises allow the student to apply classroom topics through hardware implementation. (Prerequisites: MCT 1210, 2700)
 3 hours lecture—3 hours laboratory
- MCT 2610—Computer Systems Maintenance/Troubleshooting** **4 Credits**
 A final course of study in computer hardware and software. Emphasis is on the determination of either hardware or software failures with extensive lab time utilizing equipment with simulated or actual failures along with concentration on the use of diagnostic programs to identify and isolate a faulty device or subsystem, as well as, preventive maintenance at the systems and component level. (Prerequisites: MCT 2410, 2420, 2350, 2210) Sp
 3 hours lecture—3 hours laboratory
- MCT 2700—Integrated Circuits** **3 Credits**
 Provides the student with an understanding of the operation and practical applications of linear and digital integrated circuits. Efficient hardware implementation and evaluation techniques are developed through analysis of manufacturer's specifications and design criteria. (Prerequisite: MCT 1810) F
- MCT 2705—Integrated Circuits Lab** **1 Credit**
 Classroom subject areas are continued into the lab for practical, hands-on design and analysis experience. (Lab to be taken concurrently with MCT 2700) F
 3 hours laboratory
- MCT 2850—Microprocessors** **4 Credits**
 A study of the design, operational characteristics and utilization techniques of microprocessors and microprocessor systems. Microprogramming and hardware implementation of system functions are closely examined. (Prerequisite: Consent of instructor)
 3 hours lecture—3 hours laboratory
- MCT 2900—Advanced Topics** **3 Credits**
 This course allows for an investigation into a topic of an advanced nature. The topic will be jointly selected by the student and the instructor. Offered as needed.
 3 hours lecture—3 hours laboratory

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MUSIC

THEORY AND LITERATURE

MUS 1010—Music Appreciation 3 Credits
 Open to all students who desire a better understanding of music. In this one-quarter course, music of the popular culture, as well as, traditional art music will be explored through class lecture and weekly listening assignments. F, W, Sp, Su

MUS 1020—Fundamentals of Music 3 Credits
 A beginning study of music, its terminology, and elements such as notes, scales, intervals, keys, triads, meter and smaller forms. Designed to acquaint the student with notation, the keyboard, sight singing and ear training. Offered for non-music majors; required for music majors. F

MUS 1110—Music Theory I—W only 3 Credits

MUS 1120—Music Theory II—Sp only 3 Credits
 Harmonic analysis of common practice music, standard vocabulary of harmony, form and counterpoint. Should be taken in sequence.

3 hours lecture

MUS 1111—Theory Practicum I 1 Credit

MUS 1121—Theory Practicum II 1 Credit

Ear training, sight singing, dictation and rhythmic reading. Should be taken concurrently with 1110, 20.

2 hours laboratory

MUS 2010—Introduction to Music Literature I 2 Credits

Designed to give the student a thorough grounding in music of Western civilization from antiquity through the Renaissance. Students learn through class lecture, listening assignments, concert attendance and performance of representative literature. Offered for non-music majors; required for music majors. (Alternate F)

MUS 2020—Introduction to Music Literature II 2 Credits

A continuation of MUS 2010, beginning with the Baroque era and continuing through the Classic era. Offered for non-music majors; required for music majors. (Alternate W)

MUS 2030—Introduction to Music Literature III 2 Credits

A continuation of MUS 2020, dealing with the music of the nineteenth and twentieth centuries. Offered for non-music majors; required for music majors. (Alternate Sp)

MUS 2110—Advanced Theory 3 Credits

MUS 2120—Advanced Theory 3 Credits

MUS 2130—Advanced Theory 3 Credits

Study of modulation, chromatic harmonies, 20th century harmonies and other harmonic procedures since the common practice period. Should be taken in sequence. 2110-F, 2120-W, 2130-Sp

3 hours lecture

MUS 2111—Advanced Theory Practicum I 1 Credit

MUS 2121—Advanced Theory Practicum II 1 Credit

MUS 2131—Advanced Theory Practicum III 1 Credit

Should be taken concurrently with 2110, 20, 30.

2 hours laboratory

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.

MUS 1045—Music Practicum 1 Credit

Students gain experience as support staff for various music functions and/or organizations, (i.e., sound technician, business manager, music librarian). May be repeated for credit.

MUS 1050—Roane State Singers 1 Credit

A contemporary show choir. Meets 4 hours per week during the quarter and 2 weeks prior to the quarter (8 hours per day). The official choral organization of the college. Performs with choreography. Admission by audition only.

- MUS 1055—Raider Chorus** **1 Credit**
 Performing group open to all students. Performs a variety of music. Meets 3 hours per week.
- MUS 1060—Celebration Singers** **1 Credit**
 Small ensemble of vocal soloists and instrumentalists who perform contemporary music. Admission by audition. Meets 4 hours per week. Meets in summer as follows: First summer session, four hours per week; two weeks in September prior to beginning of Fall Quarter classes.
- MUS 1065—Concert Choir** **1 Credit**
 Performs major choral works and selections from standard choral literature. Meets 4 hours per week.
- MUS 1070—Small Instrumental Ensembles** **1 Credit**
 String, brass and woodwind ensembles will rehearse three hours per week and perform twice during a quarter. Classical literature for standard instrumentations will be emphasized. Rehearsal times arranged according to students' schedules. Assignment of groups to be determined by instructor. F, W, Sp
- MUS 1080—Concert Band** **1 Credit**
 Performs traditional and contemporary wind ensemble literature. Open to all qualified students. Meets three hours per week. F, W, Sp
- MUS 1090—Jazz Band** **1 Credit**
 Admission by audition only. Performs arrangements for jazz, "big band," and studio band in contemporary and jazz-rock styles. Improvisation is encouraged, but not required. Performances regularly scheduled off-campus, as well as, for student body. F, W, Sp
- APPLIED MUSIC: CLASS INSTRUCTION**
 Class piano or class voice is offered for secondary, applied or non-music majors; and is prerequisite to Individual Instruction of non-majors who cannot pass the proficiency test.
- MUS 1510—Class Lessons in Voice I** **1 Credit**
 Group instruction in basic techniques of breath control and tone production. Concentration on English diction. Class meets twice weekly. F
- MUS 1520—Class Lessons in Voice II** **1 Credit**
 Continuation of group instruction in basic techniques of breath control and tone production. Concentration on Italian diction. Class meets twice weekly. W
- MUS 1530—Class Lessons in Voice III** **1 Credit**
 Continuation of group instruction in techniques of breath control and tone production. Concentration on German and French diction. Class meets twice weekly. Sp
- MUS 1610—Class Piano I** **1 Credit**
- MUS 1620—Class Piano II** **1 Credit**
- MUS 1630—Class Piano III** **1 Credit**
 Group instruction in basic keyboard technique for students with no prior training in piano, or for music majors not able to pass a piano proficiency exam. Electronic pianos will be used. Class meets twice weekly. Daily practice required. F, W, Sp, Su

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 preferences will be given to full-time music majors. Students receive 25 minutes of private instruction per week per quarter hours of credit. Any student may take applied music instruction in a minor area. Such courses will be designated by an "M" following the course name.

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 of practice per week is required of students in their major area of concentration. Five hours of practice per week are required of all others. F, W, Sp, Su

- MUS 1000—Solo Class** **No Credit**
 Performance opportunity for all students enrolled in Individual Instruction. Required of all Music and Music Education majors each quarter.

- MUS 1041—Accompanying** **1 Credit**
 - MUS 1042—Accompanying** **2 Credits**
- Students with acceptable piano proficiency accompany voice lessons and/or recitals. Two voice students assigned per credit hour. Admittance by audition. May be repeated for credit.
- MUS 2000—Recital** **No Credit**
- Required of all Music and Music Education majors in their performance area.

Each of the following courses may be repeated for credit. The course numbers identify the instrument, freshman or sophomore level and the number of hours and credits for each course. Students registering for any of the following courses should contact the instructor to schedule the lesson(s).

Instrument	First Year	First Year	Second Year	Second Year
	One Credit	Two Credits	One Credit	Two Credits
French Horn	MUS 1201	MUS 1202	MUS 2201	MUS 2202
Trumpet	MUS 1211	MUS 1212	MUS 2211	MUS 2212
Trombone	MUS 1221	MUS 1222	MUS 2221	MUS 2222
Baritone	MUS 1231	MUS 1232	MUS 2231	MUS 2232
Tuba	MUS 1241	MUS 1242	MUS 2241	MUS 2242
Flute	MUS 1301	MUS 1302	MUS 2301	MUS 2302
Oboe	MUS 1311	MUS 1312	MUS 2311	MUS 2312
Bassoon	MUS 1321	MUS 1322	MUS 2321	MUS 2322
Clarinet	MUS 1331	MUS 1332	MUS 2331	MUS 2332
Saxophone	MUS 1341	MUS 1342	MUS 2341	MUS 2342
Guitar	MUS 1401	MUS 1402	MUS 2401	MUS 2402
Violin/Viola	MUS 1411	MUS 1412	MUS 2411	MUS 2412
Cello	MUS 1421	MUS 1422	MUS 2421	MUS 2422
String Bass	MUS 1431	MUS 1432	MUS 2431	MUS 2432
Organ	MUS 1501	MUS 1502	MUS 2501	MUS 2502
Piano	MUS 1701	MUS 1702	MUS 2701	MUS 2702
Percussion	MUS 1801	MUS 1802	MUS 2801	MUS 2802
Voice	MUS 1901	MUS 1902	MUS 2901	MUS 2902

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. All courses except NSC 1610, 20, 30 have no prerequisites and may be taken individually or in any sequence. NSC 1610, 20, 30 must be taken in sequence, and the entire sequence must be taken to be used for core curriculum science requirement.

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, pre-dentistry, pre-pharmacy or pre-medicine.

- NSC 1010—Topics in Physics** **3 Credits**
- An introductory survey of 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 2110) F, Sp
3 hours lecture—2 hours laboratory

- NSC 1111-1112—Southwest Field Trip** **6 Credits**
- Students must enroll in both courses. (Cross-listed as SS 1110-1190) Su

- NSC 1120—Environmental Science** **4 Credits**
 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. F, Sp
 3 hours lecture—2 hours laboratory
- NSC 1220—Topics in Math for the Health Professional** **3 Credits**
 An introductory course in mathematics including such topics as word problems, algebraic expressions, ratio and proportion and systems of measurement and conversions. F, W
 3 hours lecture
- 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 course) F, Sp
 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.) F, Sp
 3 hours lecture—2 hours laboratory
- NSC 1410—Survey of Astronomy** **4 Credits**
 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. F, W
 3 hours lecture—2 hours laboratory
- NSC 1420—Archaeoastronomy** **4 Credits**
 An interdisciplinary analysis of the astronomical knowledge, beliefs and practices of ancient peoples. Emphasis is placed on examination of the monuments and ceremonial constructions of ancient cultures which have astronomical significance, as well as, other archaeological and ethnographic sources. Offered as needed.
 3 hours lecture—2 hours laboratory
- NSC 1520—Atmospheric Science** **4 Credits**
 Emphasis is directed toward an understanding of meteorologic processes which produce various features of world climate, such as thunderstorms, rainfall, hail and wind. Laboratory exercises are designed to familiarize the student with the collection and handling of climatic data and to provide practice in analyzing weather maps. (No credit is given to any student who has successfully completed GGY 1010) W
 3 hours lecture—2 hours laboratory

NURSING

- NSG 1110—Nursing I** **7 Credits**
 Introduction to nursing theory and process. Includes fundamentals of needs, assessment, communications principles and application of nursing skills.
 3 hours lecture—8 hours clinical
- NSG 1120—Nursing II** **7 Credits**
 Continuation of Nursing I. Theory and application of nursing actions to promote, maintain or restore health with emphasis on pharmacology and administration of medications.
 3 hours lecture—8 hours clinical
- NSG 1130—Nursing III** **7 Credits**
 Nursing care of individuals experiencing developmental changes and needs. Includes study of pregnancy, childbirth, infancy and growth and development. Concepts and principles from Nursing I and II are utilized.
 3 hours lecture—8 hours clinical

- NSG 2110—Nursing IV** **10 Credits**
 The focus is upon the utilization of the nursing process in prevention, treatment and maintenance of health of the child and adult patient presenting a medical and/or surgical problem related to the cardiovascular, respiratory, neurological and/or renal systems and/or disturbances of the eye, ear, nose and throat. Classroom and clinical experiences are directed toward increasing the students' knowledge of common pathophysiologic disturbances and developing advanced nursing skills required in assessing, planning, implementing and evaluating patient care.
 6 hours lecture—12 hours lab
- NSG 2120—Nursing V** **10 Credits**
 The focus is upon the utilization of the nursing process in prevention, treatment and maintenance of health of the child and adult patient presenting a medical and/or surgical problem related to the gastrointestinal, endocrine, orthopedic, oncologic/hematologic, dermatologic/burn disturbances and/or communicable diseases. Classroom and clinical experiences are directed toward increasing the students' knowledge of common pathophysiologic disturbances and developing advanced nursing skills required in assessing, planning, implementing and evaluating patient care.
 6 hours lecture—12 hours lab
- NSG 2140—Nursing VI** **7 Credits**
 Designed to present the student with an inclusive theoretical basis for contemporary psychiatric nursing practice based on the humanistic, symbolic, interactionalist, conceptual framework. It is the goal of this course to provide the student with a knowledge base for psychiatric nursing practice in a variety of settings. The clinical component of the course is intended to familiarize the student with acute and chronic psychiatric client populations, nursing interventions for psychosocial problems and more extensive development of therapeutic communication skills.
 5 hours lecture—12 hours clinical
- NSG 2210—Principles of Nutrition** **3 Credits**
 The purpose of the course is to define the role of nutrition in the health and well being of individuals throughout the life cycle. The student will obtain a working knowledge of nutrition and diet therapy which can be applied to the nutritional care of patients.
 3 hours lecture
- NSG 2920—Transitions Into Nursing Practice** **5 Credits**
 Exploration of nursing roles, organizational approaches to the delivery of nursing care, contemporary issues in nursing and health care; supervised clinical focuses on application and integration of nursing theory.
 2 hours lecture—16 hours clinical

OFFICE ADMINISTRATION¹

- OAD 1010—Typing I** **3 Credits**
 Mastery of keyboard; building accuracy and speed; typing letters and other documents. 5 hours per week—lecture and lab. F
- OAD 1020—Typing II** **3 Credits**
 Building speed and accuracy; typing letters, tables, manuscripts and other business reports. (Prerequisite: OAD 1010 or equivalent) 5 hours per week—lecture and lab. W
- OAD 1030—Typing III** **3 Credits**
 Building accuracy and speed; typing letters, tables, manuscripts and other business reports with emphasis on timed production. (Prerequisite: OAD 1020 or equivalent) 5 hours per week—lecture and lab. Sp
- OAD 1040—Keyboarding for the Computer** **3 Credits**
 A course designed for non-secretarial majors. This course develops touch mastery needed for information input on the alpha-numeric keyboard for use on standard typewriters, microcomputers, computer terminals and calculators. NOTE: No credit will be given for a student who has successfully completed a college level typing course. F
 3 hours per week
- OAD 1110—Shorthand** **5 Credits**
 Gregg shorthand with emphasis on developing speed in taking dictation and in transcribing. 5 hours per week—lecture and lab. (Corequisite: OAD 1010 or equivalent) F
- OAD 1120—Shorthand II** **5 Credits**
 Gregg shorthand with emphasis on developing speed in taking dictation and transcribing. (Prerequisites: OAD 1110 or equivalent and OAD 1010 or equivalent) 5 hours per week—lecture and lab. W

- OAD 1130—Shorthand III** 5 Credits
 Gregg shorthand with emphasis on developing speed in taking dictation and in transcribing. (Prerequisite: OAD 1120 or equivalent and OAD 1010 or equivalent) 5 hours per week—lecture and lab. Sp
- OAD 1210—Machine Transcription** 3 Credits
 Mastery of dictation/transcription equipment with emphasis on grammar, punctuation, spelling, and document format; production of mailable correspondence. (Prerequisite: OAD 1010 or equivalent) W, Sp
- OAD 2130—Word/Information Processing Concepts** 3 Credits
 Study of the theory, basic concepts and functions involved in word/information processing. Limited hands-on use of word processing equipment and software. (Prerequisite: OAD 1040 or OAD 1010 or equivalent) F
- OAD 2140—Word/Information Processing I** 3 Credits
 Introduction to and mastery of information processing terminal; practical application and use of information processor to business documents. (Prerequisite: OAD 1010 or consent of instructor) W
- OAD 2150—Word/Information Processing II** 3 Credits
 Continued word processing training utilizing advanced techniques such as production of boilerplate text, report production with footnotes, and data-base handling routines. Emphasis on editing and production of mailable documents. (Prerequisite: OAD 2140) Sp
- OAD 2160—Business Applications for the Microcomputer** 3 Credits
 Training on the microcomputer utilizing spreadsheet, data base and word processing software with business applications. Sp
- OAD 2110—Shorthand Transcription** 3 Credits
 Production standards emphasized in taking and transcribing dictation for job competency. (Prerequisites: OAD 1130 or equivalent and OAD 1010 or equivalent) W
- OAD 2210—Office Procedures and Administration** 3 Credits
 Study of office practices relative to secretarial roles; integration of skills, knowledge and training in office administration. W, Sp
- OAD 2320—Business Communications I—Grammar** 3 Credits
 Basic English grammar with emphasis on sentence structure and parts of speech with emphasis on production of business documents. F
- OAD 2330—Business Communications II** 3 Credits
 A study of the essentials of English in business communication applied to business letter writing and report writing. W
- OAD 2510—Seminar in Office Administration: Typing Refresher** 1-3 Credits
 Review of typing basics; emphasis on speed and accuracy building. (Prerequisite: OAD 1010 or consent of instructor)
- OAD 2520—Seminar in Office Administration: Shorthand Refresher** 1-3 Credits
 Review of Gregg shorthand basics; emphasis on theory review and speed in taking dictation. (Prerequisite: OAD 1110 or consent of instructor)
- OAD 2520-2550—Seminar in Office Administration** 1-3 Credits
 An updating or analysis of a particular topic, concern or problem in office administration.

¹Specialty courses in career education are not generally included in baccalaureate programs.

PHILOSOPHY

- PHL 1010—Introduction to Philosophy** 3 Credits
 A study of problems that confront humans as they deal with knowledge and the nature of the world and their interaction with it. F
- PHL 1110—Elementary Logic** 3 Credits
 Study of the principles of reasoning, deductive and inductive fundamentals, and the use of logic as a practical tool. Sp
- PHL 1210—Elementary Ethics** 3 Credits
 Critical analysis of the principal ethical theories and their application to the problems of life. W
- PHL 2010—Introductions to Religions of the World** 3 Credits
 Introduction to the study of religion through selected historical traditions, East and West. W

- PHL 2020—Issues in Religious Studies** 3 Credits
Introduction to study of religion through selected religious problems and alternatives. Sp

PHYSICAL EDUCATION

- PED 1000, 1005—Adaptive Physical Education** 1 Credit
Modified physical activity designed for students with physical limitations. Students are enrolled in these courses on advice of their physician. F, W, Sp
- PED 1010—Physical Conditioning** 1 Credit
This course is designed for those interested in improving or maintaining physical fitness. F, W, Sp
- PED 1050—Slimnastics** 1 Credit
A course designed for those interested in losing inches and weight. Improvement of physical fitness will also be emphasized. F, W, Sp
- PED 1060—Intermediate Slimnastics** 1 Credit
A continuation of PED 1050. A course which emphasizes cardiorespiratory endurance and changes in the body composition. (Prerequisite: PED 1050 or consent of instructor)
- PED 1110—Archery** 1 Credit
Introduces the student to archery through a brief study of its history with emphasis on the fundamentals of shooting the bow. F, Sp
- PED 1210—Badminton** 1 Credit
Instruction and practice in the fundamentals of badminton. F, W, Sp
- PED 1310—Basketball** 1 Credit
Practice of fundamentals, as well as, the various types of play. W
- PED 1320—Advanced Basketball** 1 Credit
A continuation of PED 1310. Emphasis on skill, strategy and competition. (Prerequisite: PED 1310 or consent of instructor) W
- PED 1410—Beginning Bowling** 1 Credit
Presents the proper selection of equipment, correct method of approach and release of the bowling ball, and scoring. A fee for facility and equipment rental will be charged for this activity. W
- PED 1420—Intermediate Bowling** 1 Credit
Continuation of skills acquired in Beginning Bowling. More emphasis is placed on individual techniques and self-improvement. (Prerequisite: Bowling 1410 or consent of instructor) A fee for facility and equipment rental will be charged for this activity. W
- PED 1510—Folk Dance** 1 Credit
Instruction in dances from various countries, including square dances. W
- PED 1610—Beginning Golf** 1 Credit
To acquaint the beginning player with correct swing, selection and use of the various clubs and basic fundamentals. F, Sp
- PED 1620—Intermediate Golf** 1 Credit
A continuation of PED 1610. Review basic fundamentals; develop advanced skills and strategies. (Prerequisite: PED 1610 or consent of instructor) F, Sp
- PED 1710—Soccer** 1 Credit
Instruction and practice in the fundamental skills of soccer. F, Sp
- PED 1800—Social Dance** 1 Credit
Instruction, practice and teaching in basic social dance steps. W
- PED 1810—Modern Dance** 1 Credit
Basic movement and dance techniques; emphasis on communicative skills, creativity and improvisation. W
- PED 1820—Beginning Jazz Dance** 1 Credit
Basic jazz warm-ups and movement with further emphasis on the history of American Jazz dance.
- PED 1910—Beginning Weight Training** 1 Credit
An introduction to the proper techniques and practices of weight training. F, W, Sp
- PED 1920—Intermediate Weight Training** 1 Credit
A continuation of PED 1910. Students will also develop and implement a personalized weight training program for their individual use. (Prerequisite: PED 1910 or consent of instructor) F, W, Sp

- PED 2010—Beginning Ballet** 1 Credit
Correct body alignment for posture, coordination and balance; stretching and limbering for muscle tone, for agility and for strength. Exercises at the barre followed by center floor work. (Placement depends upon demonstrated dancing ability) F, W, Sp
- PED 2020—Intermediate Ballet** 1 Credit
A continuation of PED 2010. F, W, Sp
- PED 2050—Marksmanship and Firearms Safety** 1 Credit
This course seeks to educate both men and women in safe and efficient use of small bore rifles for pleasure. Safety will be stressed to provide protection for all students involved. The shooting practice will be with 22 caliber rifles. All students will become familiar with the various principles of marksmanship. F, W, Sp
- PED 2110—Beginning Racquetball** 1 Credit
Instruction and practice in the fundamentals of racquetball. A fee for facility use will be charged for this activity.
- PED 2120—Intermediate Racquetball** 1 Credit
Review of fundamentals and development of advanced skills and strategies. A fee for facility use will be charged for this activity.
- PED 2210—Softball** 1 Credit
Instruction and practice in the fundamentals of catching, batting and backing up other positions. Rules and strategies will also be studied. Sp
- PED 2310—Swimming** 1 Credit
Training for beginners in swimming, emphasizing recreational swimming. A special fee will be charged for this course. Su
- PED 2410—Beginning Tennis** 1 Credit
A brief study of the history of tennis with emphasis on the rules and basic strokes which could lead to accomplished tennis skills. F, Sp, Su
- PED 2420—Intermediate Tennis** 1 Credit
Review of the basic fundamentals and rules, with emphasis on skill, strategy and competition. (Prerequisite: PED 2410 or consent of instructor) F, Sp, Su
- PED 2510—Stunts and Tumbling** 1 Credit
Practice of stunts with a minimum achievement of intermediate skill expected. To acquaint the student with the proper techniques of tumbling, trampoline and long horse vaulting. F, W
- PED 2520—Intermediate Stunts and Tumbling** 1 Credit
A continuation of PED 2510. Students will develop advanced skills in tumbling and trampoline. (Prerequisite: PED 2510 or consent of instructor.) F, W
- PED 2610—Volleyball** 1 Credit
Fundamentals, rules and strategy of play. F, W
- PED 2710—Introduction to Physical Education** 3 Credits
A study of the historical background, general scope, principles and objectives of physical education in its relationship to education as a whole. F
- PED 2730—Sports Officiating** 3 Credits
Detailed techniques and methods of sports officiating involving rule interpretation and ethical character pertaining to interscholastic, intercollegiate and intramural activities. (Sports include football, basketball, softball, baseball) Sp
3 hours lecture—laboratory
- PED 2820—Coaching of Baseball** 3 Credits
Theory and practice in the fundamentals, as well as, review of various systems of types of play. W
- PED 2830—Motorcycling** 3 Credits
Divided equally between 20 hours of classroom and 20 hours of field experiences which together stress safety, controls, basic maneuvers, basic street riding, multisurface riding, skill development and maintenance of the motorcycle. Students may apply this course toward one of the required physical education activity courses.
- PED 2840—Coaching of Basketball** 3 Credits
Theory and practice in the fundamentals, as well as, a review of the various systems of play. Sp
- PED 2850—Playground Leadership** 3 Credits
Learning activities suitable for playgrounds and studying and applying the principles of organizing and directing a playground program. Sp

PED 2910—Recreational Games 1 Credit
 A physical activity for personal skill development in recreational games such as billiards, table tennis, darts and shuffle board.

PHYSICAL THERAPIST ASSISTANT¹

PTA 1110—Introduction to Physical Therapy 3 Credits
 This course introduces the student to the profession of Physical Therapy and the concepts of the total patient. It provides information on and about the Physical Therapist Assistant and the expectations, duties and functions of the student at RSCC. It will include specific terms, purpose, philosophy and history of the profession. (Prerequisite: Allied Health Core) (Corequisite: PTA 1810)
 30 hours of lecture

PTA 1240—Kinesiology 3 Credits
 This course presents in more detail the anatomy of neuro-muscular-skeletal systems. Emphasis is placed upon normal motion and movement patterns, especially, as they apply to physical rehabilitation. (Prerequisites: AHC/BIO 2330, PTA 1110) (Corequisites: PTA 2010, 2110, 2410, 2420)
 20 hours lecture—20 laboratory hours

PTA 1810—Physical Therapist Assistant Clinical Observation 1 Credit
 An introduction to clinical practice which offers students the opportunity to develop skills in communication, interpersonal relationships, safety and professionalism. (Prerequisite: Allied Health Core) (Corequisite: PTA 1110)
 30 hours clinical

PTA 2010—Patient Care Techniques 2 Credits
 This course is a combination lecture and laboratory, during which the principles of normal posture, body mechanics, positioning and bandaging are explored along with other basic patient care procedures. (Prerequisite: PTA 1110) (Corequisites: PTA 2410, 2210)
 10 hours lecture—20 laboratory hours

PTA 2110—Neuro-Muscular-Skeletal Pathological Conditions 3 Credits
 This course introduces the student to pathological processes in a variety of orthopedic, neurological, medical and surgical conditions for which physical therapy services are indicated. (Prerequisites: PTA 1110, 1810) (Corequisites: PTA 1240, 2010, 2810)
 30 hours of lecture

PTA 2120—Treatment of Orthopedic Conditions 3 Credits
 This course introduces the student to common orthopedic conditions and related therapeutic procedures, including exercise routines, joint protection techniques, arthritis intervention and methods of relaxation. (Prerequisites: PTA 1240, 2110, 2210, 2810) (Corequisites: PTA 2140, 2720, 2820)
 20 hours lecture—20 laboratory hours

PTA 2130—Treatment of Neurological Conditions 4 Credits
 This course introduces the student to common neurological conditions and related therapeutic procedures, including neurodevelopmental and facilitation techniques. A discussion of the developmental sequence is included. (Prerequisites: PTA 1240, 2110, 2120, 2320, 2820) (Corequisites: PTA 2150, 2220)
 30 hours lecture—20 laboratory hours

PTA 2140—Treatment of Medical Conditions 3 Credits
 This course introduces the student to common medical conditions and related therapeutic procedures, including burn management, chest percussion and postural drainage, reconditioning exercises and pressure garment measurement. (Prerequisites: PTA 1110, 1240, 2010, 2110, 2210, 2810) (Corequisites: PTA 2120, 2720, 2820)
 20 hours lecture—20 laboratory hours

PTA 2150—Treatment of Surgical Conditions 3 Credits
 This course introduces the student to common surgical conditions and related therapeutic procedures including amputee management and prosthetics and cardiovascular rehabilitation. (Prerequisites: PTA 1240; 2111, 2120, 2140, 2820) (Corequisites: PTA 2130, 2220, 2830)
 20 hours lecture—20 laboratory hours

PTA 2210—Therapeutic Procedures 3 Credits
 This course includes an introduction to the fundamentals of therapeutic exercise and therapeutic massage as they apply to the clinical setting. Students role play in administering the proper techniques and considerations for treatment. (Prerequisites: PTA 1110, 1810) (Corequisites: PTA 2010, 2410, 2810)
 20 hours lecture—20 laboratory hours

- PTA 2220—Professional Assistive Techniques** **2 Credits**
 This course introduces the student to techniques for assisting the supervising physical therapist. Included among these are goniometry, manual muscle assessment, sensory assessment, gait analysis, activities of daily living and functional exercise. (Prerequisites: PTA 2010, 2310, 2320, 2410, 2720, 2820) (Corequisites: PTA 2130, 2730, 2830)
 10 hours lecture—20 laboratory hours
- PTA 2310—Therapeutic Modalities I** **2 Credits**
 This course discusses the general principles of therapeutic heat and cold. The physiological effects, indications and contraindications of numerous superficial modalities are included. (Prerequisites: PTA 1110, 1810) (Corequisites: PTA 2010, 2210, 2410, 2810)
 10 hours lecture—20 laboratory hours
- PTA 2320—Therapeutic Modalities II** **5 Credits**
 This course discussed the general principles of electrotherapeutic modalities used in the physical therapy setting. Included among these are therapeutic deep heating modalities, mechanical traction, biofeedback and electrical stimulations. (Prerequisites: PTA 2310, 2810) (Corequisites: PTA 2120, 2720, 2820)
 30 hours lecture—40 laboratory hours
- PTA 2410—Mobility Techniques** **3 Credits**
 This course introduces the student to mobility activities such as transfer, gait, tilt table and the use of assistive mobility devices. Architectural barriers and activities of daily living as related to mobility will be explored. (Prerequisites: PTA 1110, 1810) (Corequisites: PTA 1240, 2010, 2210, 2810)
 20 hours lecture—20 laboratory hours
- PTA 2710—Physical Therapist Assistant Seminar I** **1 Credit**
 This course provides orientation to the practice of Physical Therapy in specific clinical facilities. An opportunity to review the basic expectations of the Physical Therapist Assistant's role in the Physical Therapy profession will be included. (Prerequisites: PTA 1110, 1810) (Corequisites: PTA 2210, 2310, 2410, 2810)
 10 hours of lecture
- PTA 2730—Physical Therapist Assistant Seminar III** **1 Credit**
 An opportunity for the student to tie together the various aspects of the curriculum requirements to date through general discussions. A written evaluation of technical/professional competencies will be included. Total patient care concepts and the students' reactions concerning chronic pain, death and dying, and psychological adjustment will be explored. (Prerequisites: PTA 2120, 2140, 2710, 2720, 2810, 2820) (Corequisites: PTA 2130, 2150, 2220, 2830)
 20 hours of lecture
- PTA 2810—Physical Therapist Assistant Clinical I** **1 Credit**
 The student observes and performs elementary procedures and techniques involved in patient care under the supervision of the Physical Therapist Assistant in specific physical therapy facilities. (Prerequisites: PTA 1010, 1810) (Corequisites: PTA 2010, 2410, 2710)
 30 clinical hours
- PTA 2820—Physical Therapist Assistant Clinical II** **4 Credits**
 Didactic lecture and role playing laboratory exercises are correlated with supervised clinical experiences in affiliate institutions. (Prerequisites: PTA 1810, 2210, 2310, 2710, 2810) (Corequisites: PTA 2110, 2720)
 120 clinical hours
- PTA 2830—Physical Therapist Assistant Clinical III** **6 Credits**
 Didactic lecture and role playing laboratory exercises are correlated with supervised clinical experiences in affiliate institutions. (Prerequisites: PTA 1810, 2810, 2820) (Corequisites: PTA 2130, 2730)
 180 clinical hours

*Specialty courses in career education are not generally included in baccalaureate programs.

PHYSICS

To receive credit for a course, the lecture section must be accompanied by a laboratory session during the same quarter.

NOTE: The physics sequences PHY 2110, 20, 30 and PHY 2010, 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 2010—General Physics I** **4 Credits**
 Fundamental laws of mechanics. (Prerequisite: MAT 1130 or MAT 1500 or consent of instructor) F
 3 hours lecture—3 hours laboratory

- PHY 2020—General Physics II** **4 Credits**
 Fundamental laws of electricity and magnetism in elements of modern physics. (Prerequisite: PHY 2010) W
 3 hours lecture—3 hours laboratory
- PHY 2030—General Physics III** **4 Credits**
 Fundamental laws of heat, light and sound. (Prerequisite: PHY 2020) Sp
 3 hours lecture—3 hours laboratory
- PHY 2110—Physics I** **4 Credits**
- PHY 2120—Physics II** **4 Credits**
- PHY 2130—Physics III** **4 Credits**
 PHY 2110-F covers mechanics. PHY 2120-W covers electricity and magnetism. PHY 2130-Sp covers heat, wave motion, optics and modern physics. A sequence course. (Prerequisite: Calculus and Analytic Geometry I) (Corequisite: Calculus sequence)
 3 hours lecture—3 hours laboratory
- PHY 2210—Modern Physics** **4 Credits**
 Fundamental principles of modern physics are covered. Topics include relativity, structure of matter, quantum effects and nuclear physics. (Corequisite: PHY 2130 or consent of instructor) Alternate Sp
 3 hours lecture—3 hours laboratory
- PHY 2700-2750—Independent Scientific Investigation** **3 Credits**
 Independent research and development in physics by qualified students under the supervision of a faculty member. Especially intended to develop interest and skill in the techniques of physics research and development. Up to nine hours credit may be earned. Transfers as elective credit only. (Consent of the faculty member is required) F, W, Sp, Su

POLICE SCIENCE

- PST 1010—Introduction to Law Enforcement** **3 Credits**
 Philosophical and historical background; agencies and respective jurisdictions; police ethics, public relations and career orientation. F
- PST 1110—Laws of Arrest, Search and Seizure** **3 Credits**
 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, arraignment, preliminary hearings, bail, grand and petit juries, and the trial. W
- PST 1120—Court Procedures** **3 Credits**
 A study of the qualities of an investigation; general criminal investigative methods, procedures and techniques; phases of investigation; testifying and preparation of evidence for court. Sp
- PST 2010—Police Administration and Organization** **3 Credits**
 A study of police organizations, their hierarchical structure, techniques of administration and management utilized in standard police organizations with emphasis on problems of supervision, responsibility and control of police units. F
- PST 2050—Introduction to Criminology** **3 Credits**
 See course description under SOC 2130.
- PST 2110—Psychology of Law Enforcement** **3 Credits**
 See course description under PSY 2110.
- PST 2130—Criminal Investigation** **3 Credits**
 A continuation of Court Procedures with emphasis on the elements, modus operandi and various investigative aspects of the serious and more frequently occurring crimes and methods of crime prevention through contact with the public. F
- PST 2140—Criminal Law** **3 Credits**
 An introduction to the theory and practice of basic scientific techniques utilized in the investigation and solving of crime. These procedures which will be presented by means of classroom lectures, demonstration sessions and practical laboratory periods will emphasize the proper handling and examination of evidence, fingerprinting, photography, glass fractures, casts and molds, narcotics and narcotic preparations, and crime scene searches. W
- PST 2200—Seminar in Police Problems** **6 Credits**
 A course designed to consolidate the various learning experiences in police science. Emphasis is placed on special problems. Sp

POLITICAL SCIENCE

- POL 1010—Fundamentals of American Government** 3 Credits
An introduction to the setting and foundations of American politics with emphasis on citizen attitudes and values, national and state constitutions, political parties, interest groups, public opinion and voting. F
- POL 1020—United States National Government** 3 Credits
United States national government with special emphasis upon the executive, legislative, judicial and administrative functions. W
- POL 1030—State and Local Government in the United States** 3 Credits
Forms of state and local government organizations. Interrelationships between the state and local, state and federal, and local and federal governments. Sp
- POL 2010—Introduction to Political Science** 3 Credits
A comprehensive introduction to the study of political science with emphasis on the theory, processes and institutions of politics and governments in the modern world. As needed.

PSYCHOLOGY

- PSY 1005—Psychology and Everyday Life** 3 Credits
The direct application of basic psychological principles and research to a variety of common problems and life situations. Topics which will be covered—among others—include enhancing interpersonal relationships, overcoming emotional distress and studying effectively. This college-level elective which requires no formal background in psychology is especially appropriate for students in career education programs. As needed.
- PSY 1010—General Psychology I** 3 Credits
Introduction to the methods and findings of contemporary psychology. The following topics are covered: the history of psychology, the scientific methods of observation; the principles of efficient learning; remembering and forgetting; language, thinking, and problem-solving; the senses; and perception. F, W, Sp, Su
- PSY 1020—General Psychology II** 3 Credits
Basic principles of adjustment, personality development, and psychological measurement and evaluation are covered. F, W, Sp, Su
- PSY 1030—General Psychology III** 3 Credits
Developmental and social psychology, motivation and emotion, and human sexuality are the topics covered. F, W, Sp, Su
- PSY 2110—Psychology of Law Enforcement** 3 Credits
This course provides a dual purpose for law enforcement students: to acquaint students with traditional concepts and theories of human behavior, i.e. normal and abnormal personality development and to introduce topics of special concern to the law enforcement agent: the role of the police officer, crisis intervention, domestic disturbances, job stress, and interpersonal effectiveness skills. (Prerequisite: PST 1010 or field experience in a law enforcement agency) (Cross-listed as PST 2110) As needed.
- PSY 2210—Educational Psychology** 3 Credits
The principles of growth and development are studied and related to student learning. Capacity for learning, methods of effective study and the effect of the environment on the student are investigated and studied. (Cross-listed as EDU 2210) W, Sp
- PSY 2310—Abnormal Psychology** 3 Credits
Topics covered include definitions and indices of abnormal behavior, general symptoms of specific neurotic and psychotic syndromes. F, W, Sp
- PSY 2410—The Developing Person: The Childhood Years** 3 Credits
This course covers psychological and physiological growth and development of the human organism from conception to adolescence. F, W, Sp
- PSY 2420—The Developing Person: Adolescence and Adulthood** 3 Credits
This course covers psychological and physiological growth and development from adolescence through death. W, Sp
- PSY 2450—Human Development Seminar** 3 Credits
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. F, Sp

- PSY 2510—Social Psychology 3 Credits**
 A course to teach the relation of psychology to the social environment. Topics studied include prejudice, attitude change, interpersonal attraction, aggression. F, W, Sp
- PSY 2610—Psychological Aspects of Management 3 Credits**
 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. (Cross listed as BUS 2610.) F, W, Sp
- 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) F, W, Sp

QUALITY ASSURANCE TECHNOLOGY¹

- QAT 1020—Quality Control I 3 Credits**
 Course includes topics such as basic concepts, quality policy and objectives, quality and income, quality costs, quality planning, quality organization, new product quality, manufacturing planning, vendor relations, quality inspection and tests, measurements, calibration, traceability, first article evaluation, verification methods. (Prerequisites: MAT 2510 or consent of instructor)
- QAT 1040—Introduction to Nondestructive Tests 4 Credits**
 An introduction to theory and techniques of nondestructive testing including ultrasonic testing, Eddy current testing, dye penetrant inspection, fluoroscopic testing.
 3 hours lecture—3 hours laboratory
- QAT 1050—Nondestructive Testing I 4 Credits**
 A continuation of QAT 1040 with emphasis on radiography, liquid penetrant, and magnetic particle testing. (Prerequisite: QAT 1040)
 3 hours lecture—3 hours laboratory
- QAT 1060—Nondestructive Testing II 4 Credits**
 A continuation of QAT 1040 with emphasis on Eddy Current and ultrasonic testing. (Prerequisite: QAT 1040)
 3 hours lecture—3 hours laboratory
- QAT 1110—Introduction to Nuclear Quality Assurance 3 Credits**
 Course includes a study and introduction to various QA requirements, standards and Nuclear Regulatory Commission (NRC) Regulatory Guides. An in-depth study of 10CFR50, Appendix B, ANSI N45.2, ASME NCA-4000 and NCA-3800 is accomplished by the student during this course.
- QAT 2010—Reliability Principles and Practices 3 Credits**
 A study of the fundamental concepts of modern reliability theory and practice. Course includes methods of obtaining reliability data, their analysis and evaluation, techniques of predicting and verifying product reliability, and the maintenance of equipment.
- QAT 2020—Quality Control II 3 Credits**
 A continuation course including topics such as marketing and warranty quality, field performance, product liability, quality improvement, quality personnel management, documentation processes, non-conformance control, material review boards, corrective action, design and analysis of experiments, quality audits, quality data packages.
- QAT 2030—Quality Control III 3 Credits**
 Course includes product design, quality planning, test and inspection planning, automatic test equipment, data processing applications, quality analysis and reporting, failure analysis rates and reporting, quality improvement, and advances in quality assurance.
- QAT 2110—Mechanical Metrology 3 Credits**
 A study of the basic principles and applications of mechanical inspection procedures used in industry. Includes the use of micrometers, vernier calipers, hold gauges, go/nogo gauges, drill size gauges, dial gauges, bore gauges, gauge blocks, wire gauges, plug gauges, snap ring gauges, etc.
 2 hours lecture—3 hours laboratory
- QAT 2120—Electrical Metrology 3 Credits**
 The basic principles and applications of electrical measurement devices and instruments are studied. Includes the use of AC and DC ammeters, voltmeters, and wattmeters; VOM's, VTVM's; bridges, oscilloscopes, digital instruments. Covers electrical measurement standards, basic laws of electricity and electrical color codes.
 2 hours lecture—3 hours laboratory

- QAT 2210—Radiography I** 3 Credits
 A study of the principles of radiographic inspection and its applicability to manufacturing techniques. Includes calculations of exposure time, film selection, radiographic sources, personal protection and safety.
 2 hours lecture—3 hours laboratory
- QAT 2220—Radiography II** 3 Credits
 A continuation of study of radiographic inspection. (Prerequisite: QAT 2210)
 2 hours lecture—3 hours laboratory
- QAT 2310—Procurement Quality Control** 3 Credits
 A course of study of quality control concepts and techniques used in the procurement of material. Includes quality system concepts, organization, costs, incoming material control, special process studies and documentation requirements.
- QAT 2350—Statistics and Quality Control I** 3 Credits
 An elementary approach to statistical techniques for control of quality requirements in manufacturing for those with no previous experience. Study includes use of formulas, sampling techniques, inspection tool and devices, and control charts. Theory and practical application are combined so that weaknesses and defects in a system can be identified, analyzed and corrected. W
 2 hours lecture—3 hours laboratory
- QAT 2360—Statistics and Quality Control II** 3 Credits
 A continuation of QAT 2350. (Prerequisite: QAT 2350)
 2 hours lecture—3 hours laboratory
- QAT 2410—Intermediate Nuclear Quality Assurance I** 3 Credits
 A continuation of QAT 1110, including the study of Nuclear Procurement requirements (ANSI N45.2.13), Nuclear QA Records (ANSI N45.2.9), Quality Assurance Definitions (ANSI N45.2.10) and Packaging, Shipping, Receiving, Storage and Handling of nuclear-related items (ANSI N45.2.2). (Prerequisite: QAT 1110)
- QAT 2420—Intermediate Nuclear Quality Assurance II** 3 Credits
 A continuation of QAT 2410, completing the study of the following ANSI N45.2 daughter standards, pertaining to cleaning of Fluid Systems and associated components (ANSI N45.2.1); Installation, Inspection, and Testing of Instrumentation and Electric Equipment (ANSI N45.2.4/IEEE std. 336); Qualification of Inspection, Examination, and Testing Personnel (ANSI N45.2.6); and Supplementary QA Requirements for Installation, Inspection, and Testing of Mechanical Equipment and Systems (ANSI N45.2.8). (Prerequisite: QAT 1110)
- QAT 2510—Nuclear Quality Assurance Auditing** 3 Credits
 A study of the fundamentals of auditing. This course addresses the American National Standards Institute standard, ANSI N45.2.12, "Requirements for Auditing of Quality Assurance Programs for Nuclear Power Plants," and provides training towards the requirements of ANSI N45.2.23, "Qualification of Quality Assurance Program Audit Personnel for Nuclear Power Plants." This course discusses auditing philosophies, audit planning, how to write an audit report, and auditing role playing. (Prerequisite: QAT 1110)
- QAT 2610—Quality Assurance Requirements for Nuclear Design** 3 Credits
 A study of the fundamentals of Design Control for the design of nuclear related items, parts, components and systems. This course addresses ANSI N45.2.11, "Quality Assurance Requirements for the Design of Nuclear Power Plants," with emphasis upon the design process, interface control, design verification, document control and design change control. Qualification testing is also discussed with an introduction to IEEE Standard 323, "IEEE Standard for Qualifying Class IE Equipment for Nuclear Power Generating Stations." (Prerequisite: QAT 1110)
- QAT 2710—Advanced Nuclear Quality Assurance** 4 Credits
 How the QA system is implemented. The course addresses the planning phase of a QA program and teaches the student how to prepare a QA manual and implementing procedures. (Prerequisites: QAT 1110, 2410, 2420)
 3 hours lecture—3 hours laboratory
- QAT 2810—Quality Circles** 3 Credits
 An introduction to a concept in which workers meet in small groups to identify, analyze and provide solutions for problems.

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RADIOLOGIC TECHNOLOGY¹

- RDT 1000—Clinical Education I** **4 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 of clinical experience during the intersession are required. (Prerequisite: Admission to Radiologic Technology Program)
 8 hours clinical experience
- RDT 1040—Clinical Education II** **4 Credits**
 Continuation of Clinical Education I. In addition to the clinical experience of this course, two weeks of 40 hours of clinical experience during the intersession are required. (Prerequisite: RDT 1000)
 8 hours clinical experience
- RDT 1020—Clinical Education III** **4 Credits**
 Continuation of Clinical Education II. (Prerequisite: RDT 1040)
 8 hours clinical experience
- RDT 1050—Clinical Education IV** **8 Credits**
 Continuation of Clinical Education III. (Prerequisite: RDT 1020)
 8 hours clinical experience
- RDT 1110—Introduction to Radiologic Technology** **3 Credits**
 Orientation to radiologic technology as a profession. Adaptation to the hospital, medical team and radiology department is initiated. Major educational areas include: basic radiation protection, medical ethics, patient-technologist relationships, general patient care, mechanics, special patient care, and oxygen therapy. (Corequisite: RDT 1000)
 1 hour lecture—3 hours laboratory—4 hours clinical experience
- RDT 1250—Radiographic Positioning I** **3 Credits**
 Basic principles of radiographic positioning, especially, radiographic anatomy and positioning of the chest and abdomen. Use is made of audio-visuals, radiographs, skeleton model and laboratory experiences. (Prerequisite: RDT 1110)
 2 hours lecture—4 hours laboratory
- RDT 1260—Radiographic Positioning II** **3 Credits**
 Continuation of Radiographic Positioning I. New areas are hands, wrist, forearm, elbow, humerus, shoulder girdle, arthrology of upper extremities. (Prerequisite: RDT 1250)
 2 hours lecture—4 hours laboratory
- RDT 1270—Radiographic Positioning III** **3 Credits**
 Continuation of Radiographic Positioning II. New areas are foot and ankle, lower leg, knee, patella, femur, hips and pelvis. (Prerequisite: RDT 1260)
 2 hours lecture—4 hours laboratory
- RDT 1450—Radiographic Principles I** **2 Credits**
 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 math review. (Corequisite: RDT 1000)
- RDT 1460—Radiographic Principles II** **2 Credits**
 Performance of laboratory experiments on the function of focus-film distance, function of kilovoltages, and function of mill-ampere-seconds. Photographic factors, absorption and penetration, anatomic conditions and control of secondary radiation, basic atomic structure and silver image formation are studied. (Prerequisite: RDT 1450)
 3 hours lecture—2 hours laboratory
- RDT 1470—Radiographic Principles III** **2 Credits**
 Study of density factors, geometric factors and intensifying screens. Other imaging modalities also studied. (Prerequisite: RDT 1460)
 2 hours lecture—4 hours laboratory
- RDT 1480—Radiographic Principles IV** **2 Credits**
 Students are introduced to different types of technique charts and taught how to formulate a technique chart. (Prerequisite: RDT 1470)
 3 hours lecture—2 hours laboratory
- RDT 1510—Radiographic Film Evaluation** **2 Credits**
 Evaluation of films exposed by the students. Specific aspects emphasized are: clinical data, technique, collimation and shielding, positioning, anatomy and radiographic quality. (Prerequisite: RDT 1250)

- RDT 1520—Radiographic Film Evaluation II** **2 Credits**
Continuation of Radiographic Film Evaluation I. (Prerequisite: RDT 1510)
- RDT 1610—Radiation Physics I** **3 Credits**
Emphasis is placed throughout the entire course on physics as applied to radiology. The student is introduced to units of measurement, mechanics, structure of matter, electrostatic and electrical circuits. (Prerequisite: RDT 1470)
- RDT 2140—Clinical Education V** **8 Credits**
Continuation of Clinical Education IV. In addition to the clinical experience of this course, two weeks of 40 hours clinical experience during the intersession are required. (Prerequisite: RDT 1050)
28 hours clinical experience
- RDT 2150—Clinical Education VI** **6 Credits**
Continuation of Clinical Education V. In addition to the clinical experience of this course, two weeks of 40 hours of clinical experience during the intersession are required. (Prerequisite: RDT 2140)
32 hours clinical experience
- RDT 2160—Clinical Education VII** **7 Credits**
Continuation of Clinical Education VI. (Prerequisite: RDT 2150)
32 hours clinical experience
- RDT 2170—Clinical Education VIII** **11 Credits**
Continuation of Clinical Education VII. (Prerequisite: RDT 2160)
36 hours clinical experience
- RDT 2310—Radiographic Positioning IV** **3 Credits**
New areas are cranium, sella turcica, petrous, pyramids, facial bones, zygomatic arches, optic foramina, mandible, TMJ, sinuses, mastoids, and ear structures. (Prerequisite: RDT 1270)
2 hours lecture—4 hours laboratory
- RDT 2320—Radiographic Positioning V** **3 Credits**
Continuation of Radiographic Positioning IV. New areas are coccyx, sacrum, lumbar spine, thoracic and cervical spine, bony thorax and soft tissues of the chest. (Prerequisite: RDT 2310)
- RDT 2410—Introduction to Imaging** **1 Credit**
The course takes an exploratory look at the expanding field of radiography. Current areas of interest are nuclear medicine, ultrasonics, CT, digital radiography and NMR.
- RDT 2610—Radiation Physics II** **3 Credits**
Continuation of Radiation Physics I. New subject areas are electro-magnetism, rectification, production and properties of X-ray, X-ray tubes, X-ray circuits and equipment. (Prerequisite: RDT 1610)
- RDT 2710—Special Examinations and Equipment I** **2 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 1470)
- RDT 2810—Radiation Protection** **3 Credits**
A study of the basic interaction with matter, biological effects of ionizing radiation, patient and personnel protection, MPD, and personnel monitoring. (Prerequisite: RDT 2310)
- RDT 2910—Radiographic Pathology** **2 Credits**
This course relates disease processes particularly to radiology. All anatomical systems of the body are included. (Prerequisite: RDT 2310)
- RDT 2915—Radiologic Technology Seminar I** **2 Credits**
This course provides the student with an opportunity to obtain in-depth professional knowledge. Extensive use is made of student presentations and group discussion. (Prerequisite: RDT 2310)
- RDT 2925—Radiologic Technology Seminar II** **2 Credits**
Continuation of Radiologic Technology Seminar I. (Prerequisite: RDT 2915).

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READING

- REA 1040—Speed Reading** **3 Credits**
This course is designed to improve the reading efficiency of the above average student. Though initial attention is given to reading speed, extension of vocabulary, comprehension and study skills is encouraged. W, Sp

RECREATION

- REC 1010—Introduction to Recreation** 3 Credits
 Introduces the fundamentals of the nature, scope and significance of organized recreation services. It includes study of factors involved in the operation of basic recreation units, major program areas, organizational patterns, and the interrelationship of special agencies and institutions which serve the recreation needs of society. F
- REC 1020—Social Recreation** 3 Credits
 Introduces methods and materials for planning, organizing and conducting social activities for groups of various sizes and ages in a variety of social situations. Emphasis is on the mechanics of planning and presenting a repertoire of activities for social recreation events. Major activities will be discussed, played and/or demonstrated. F
- REC 1030—Outdoor Education** 3 Credits
 Includes study of the history, development and trends of outdoor recreation, conservation and organized camping. Emphasis is on laboratory work, field trips and the development of outdoor skills. Sp
- REC 1040—Wilderness Camping** 3 Credits
 A course designed to inform the novice through the experienced outdoors-person on the latest equipment, techniques and clothing for safe hiking and camping. Students may apply this course toward one of the required physical education activity courses, F, W, Sp, Su
- REC 1110—Team Sports** 3 Credits
 Offers a survey of the basic terminology, skills and rules of selected team sports and their use in recreation. Emphasis is on knowledge and understanding of the organization, administration and promotion of sports rather than mastery of performance skills. F
- REC 1310—Arts and Crafts** 3 Credits
 Demonstrates the methods and materials used in arts and crafts projects for a variety of recreational settings: school, camp, playground, recreation center and club. Emphasis is on constructing, administering promoting and teaching crafts. Sp
- REC 2010—Organization and Administration in Recreation** 3 Credits
 A study of essential elements and basic principles involved in the organization, supervision, promotion and evaluation of various types of recreation programs. Emphasis is on organized programs and services. W, Sp
- REC 2720—Facilities Planning and Maintenance** 3 Credits
 An in-depth study of essential elements and principles involved in physical plant planning and management. Includes special student projects. W, Sp
- REC 2810—Camping and Camp Leadership** 3 Credits
 Emphasis is placed on the camp counselor, the planning of programs and demonstrations applicable to camp life. Su
- REC 2870—Recreation Leadership** 3 Credits
 Principles, materials, methods and practice in planning and directing recreation. W, Sp

REMEDIAL STUDIES¹

- RSM 0710—Remedial Mathematics** 5 Credits
 Remedial Mathematics stresses basic arithmetic and math concepts. Word problems, interpretation of graphs and simple measurements are also included. Satisfactory completion of this course or other evidence of competencies in these areas is a prerequisite for DSM 0810: Algebra A. (Corequisite: RSS 0760)
- RSE 0740—Spelling, Usage and Grammar** 5 Credits
 Spelling, Usage and Grammar is designed to develop basic skills essential in writing standard English. Emphasis will be given to basic mechanics of spelling, punctuation, capitalization, pronoun usage, verb tense and sentence structure. Satisfactory completion of this course or other evidence of competencies in these areas is a prerequisite for DSE 0840: Basic Writing. (Corequisite: RSS 0760, RSR 0770)
- RSS 0760—Study Skills I** 5 Credits
 Study Skills I assists the student in learning the study skills which provide a basis for success in college. Taking lecture notes, reading the textbook, studying for tests and using the library are given primary emphasis. Intensive practice of these skills is provided. (Corequisites: RSM 0710, RSE 0740 and/or RSR 0770)

- RSR 0770—Essential Reading Skills** 5 Credits
 Essential Reading Skills is designed to improve fundamental reading skills which are essential for success in academic work. Systematic approaches for developing vocabulary skills and for improving comprehension abilities will be emphasized. (Corequisite: RSE 0760)

¹Courses in Remedial Studies cannot be used to satisfy the minimum number of hours required for graduation. Competencies in these areas are prerequisites for college courses numbered 1000 or above. Courses may be repeated only once and may not be dropped without the approval of the department head.

RESPIRATORY THERAPY¹

- RTT 1020—Cardiopulmonary Pharmacology** 3 Credits
 A study of the physiology of the autonomic nervous system and an in-depth study of the pharmacologic actions of drugs administered by the respiratory care practitioner.
- RTT 1030—Cardiopulmonary-Renal Anatomy and Physiology** 3 Credits
 An in-depth study of the structure and function of the cardiopulmonary and renal organ systems.
- RTT 1040—Acid-Base and Blood Gas Methodology** 3 Credits
 A detailed study of hemoglobin, oxygen, carbon dioxide relationships and the acid-base balance in health and disease.
 lecture and laboratory
- RTT 1050—Pulmonary Function Methodology** 3 Credits
 Development of skills in a pulmonary function testing methodology, with major emphasis on spirometry and lung-volume studies and evaluation.
 lecture and laboratory
- RTT 1110—Respiratory Therapy Science I** 4 Credits
 A study of the principles, operations, and maintenance of compressed gas sources, gas administration devices, humidifiers, and nebulizers.
 lecture and laboratory
- RTT 1120—Respiratory Therapy Science II** 4 Credits
 A detailed study of the principles, operation, and maintenance of oxygen controlling and analyzing instruments, resuscitators, and monitoring devices. Also sterilization and cleaning will be studied.
 lecture and laboratory
- RTT 1130—Respiratory Therapy Science III** 4 Credits
 An in-depth study of the classification, function, use and maintenance of pressure limited ventilators.
 lecture and laboratory
- RTT 1140—Respiratory Therapy Science IV** 4 Credits
 An in-depth study of the classification, function, use, and maintenance of volume limited ventilators and mechanical ventilation.
 lecture and laboratory
- RTT 1500—Fundamental Patient Care** 2 Credits
 Emphasis is placed on ethics and the medical team—therapist, patient-therapist relationships. The student will learn selected general patient care techniques in the laboratory setting, including chest physiotherapy. Also competence in cardiopulmonary resuscitation will be gained.
 lecture and laboratory
- RTT 1610—Introduction to Respiratory Therapy** 1 Credit
 Introduction to the study of the relation of the Respiratory Therapist to the health care team and organization of the Respiratory Care Profession.
- RTT 2120—Neonatal and Pediatric Respiratory Therapy** 4 Credits
 This course reviews the anatomy and physiology of the cardiopulmonary system as it relates to the embryo, pre-nate, pediatric and adolescent. Diseases common to the child throughout various stages of growth and development will be examined. Intensive and rehabilitative as well as routine pulmonary therapeutic techniques will be presented.
 lecture—selected laboratory sessions
- RTT 2410—Pathology of Respiratory Diseases I** 2 Credits
 A study of common respiratory abnormalities. Anatomical alterations of the lungs due to disease, the etiology of the disease, the major respiratory-related clinical manifestations associated with the disease process, and treatment of the disease will be studied.
 lecture

RTT 2420—Pathology of Respiratory Diseases II **2 Credits**
A continuation of RTT 2410.

lecture

RTT 2540—Respiratory Care Seminar **2 Credits**

The student will be responsible for a case presentation under the supervision of an instructor and a physician. The presentation should be 30 to 40 minutes long and cover the areas designated in the Clinical Patient Report Form and any other pertinent information. The course instructor, a physician, and the class will monitor the case presentation. Discussion during and following the presentation will foster a learning experience for both the presentee and the class.

RTT 2610—Diagnostic and Therapeutic Techniques I **2 Credits**

Evaluation and physiological correlates of chest roentgenology. Electrocardiography will also be studied.

lecture and selected laboratory sessions

RTT 2620—Diagnostic and Therapeutic Techniques II **2 Credits**

PEEP and CPAP therapy and weaning techniques, including IMV considerations.

lecture and selected laboratory sessions

RTT 2630—Diagnostic and Therapeutic Techniques III **2 Credits**

A study in fluid and electrolyte balance within the body, and cardiovascular monitoring, including swan-ganz catheterization and cardiac output.

lecture

RTT 2730—Clinical Education I **8 Credits**

An integrated study of the application and practice of topics discussed in previous and current Respiratory Therapy courses, including RTT 1500. Competence is to be gained in medical gas, humidity, and aerosol therapies, sterilization and isolation techniques, intermittent positive pressure breathing and medication nebulizer therapy. The student will learn to apply respiratory pharmacology, airway management, chest physiotherapy techniques, and chest X-ray analysis. Rotations will also begin the pulmonary function lab, arterial blood gas lab, and the neonatal and pediatric areas.

RTT 2740—Clinical Education II **8 Credits**

An integrated study of the application and practice of topics discussed in previous and current respiratory therapy courses, including RTT 1500 and 2730. Competence is to be gained in pulmonary function measurement and interpretation, arteriotomy, analysis and interpretation of arterial blood gases, and blood gas machine maintenance. Pre-operative and post-operative evaluation and observation of general anesthesia and chest surgery will occur. Mechanical ventilation procedures will be introduced in this quarter.

RTT 2750—Clinical Education III **10 Credits**

This is the final course in the clinical education sequence. It is a continuation of all the concepts learned in RTT 1500, 2730, and 2740. The student must demonstrate mastery of all the respiratory therapy modalities that he/she has learned. Clinical competence must have been gained in all areas in order for the student to complete this course. The responsibilities that a staff therapist has in his/her work will be assigned to the student so that he/she can be exposed to organizing and implementing respiratory therapy procedures.

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SAVINGS ASSOCIATION

SAV 1010—Introduction to Savings Association **3 Credits**

Survey course to introduce students to the role of savings associations. Historical development of savings association organization competition, and future direction are presented, and students acquire a solid foundation for more specialized courses of study.

SAV 1110—Savings Accounts **3 Credits**

Enables students to understand the nature of savings accounts, types of savings account ownership, and problems unique to savings accounts.

SAV 1120—Savings Account Administration **3 Credits**

This course extends the general presentation of savings accounts offered and emphasizes the administration and insurance of savings accounts.

SAV 2110—Savings Association Operations **3 Credits**

An overview of internal operations of savings associations—this course surveys the work done throughout the institutions, outlines the responsibility of various departments and illustrates the interrelationships of all job assignments.

SOCIAL SCIENCE

- SS 1110-1190—Social Science Seminar** **1-3 Credits**
 In-depth analysis of a particular topic, concern, or problem in the Social Sciences. Courses may be oriented toward any one of the social science disciplines (Geography, History, Political Science, Psychology, Sociology-Anthropology) or may be cross-disciplinary in nature combining several social sciences. Social Science elective credit only. As needed.

SOCIOLOGY

- SOC 2010—Introduction to Sociology** **3 Credits**
 An analysis of human social interaction, patterned social relationships, and social change with special emphasis on basic concepts such as culture, socialization, social control, deviance, and stratification. F, W, Sp, Su
- SOC 2020—Social Institutions** **3 Credits**
 An examination of the organized systems of human social interaction and relationships that have become institutionalized. Attention is given to selected institutions such as the family, education, religion, sport and recreation. F, W, Sp
- SOC 2030—Social Problems** **3 Credits**
 A study of a number of societal problems including composition and effects, sociological analysis, and possible solutions. Examples include population and food, environmental and resources challenges, inequality, and violence. W, Sp
- SOC 2110—Introduction to Cultural Anthropology** **3 Credits**
 An introductory survey of the principles, concepts, methods, and scope of anthropology. Emphasis is placed on the nature of culture, sociocultural adaptation, language, social systems, ritual and belief systems, and the impact of change. As needed.
- SOC 2120—Introduction to Prehistory and Archaeology** **3 Credits**
 An introductory survey of human origins and prehistoric cultures. Emphasis is placed on the general principles, theoretical orientations, and methods of archaeology. As needed.
- SOC 2130—Introduction to Criminology** **3 Credits**
 An analysis of the nature and extent of crime. Emphasis is placed on criminal and delinquent behavior and theories of causation; the criminal personality and career orientation; and principles and theories of prevention, control, and treatment. (Cross-listed as PST 2050) W, Sp
- SOC 2140—Marriage and the Family** **3 Credits**
 An analytical and practical examination of the family as a unit of interacting individuals with emphasis on functions, socialization, disorganization, change and conflict, and possible future developments. As needed.
- SOC 2150—Energy and Society** **3 Credits**
 See course description for CMT 1610.

SPANISH

- SPA 1010—Beginning Spanish I** **3 Credits**
 (No prerequisite)
- SPA 1020—Beginning Spanish II** **3 Credits**
 (Prerequisite: SPA 1010)
- SPA 1030—Beginning Spanish III** **3 Credits**
 Elementary grammar, pronunciation and conversation through use of films, videotapes, cassette tapes' filmstrips and computer programs. Laboratory required. (Prerequisite: SPA 1020)
- SPA 2010—Intermediate Spanish I** **3 Credits**
 (Prerequisite: SPA 1030)
- SPA 2020—Intermediate Spanish II** **3 Credits**
 (Prerequisite: SPA 2010)

SPA 2030—Intermediate Spanish III **3 Credits**
 Advanced grammar and conversation through use of films, videotapes, cassette tapes, filmstrips, computer programs and library readings. Laboratory required. (Prerequisite: SPA 2020)

SPEECH

SPE 2410—Basic Speech Communication **3 Credits**
 Designed to introduce the student to the basic principles and techniques of public speaking. Emphasis in class is placed on the selection of subjects and supporting materials, the organization of the speech, and the oral and physical aspects of delivery. F, W, Sp, Su

SPE 2430—Interpersonal Communication **3 Credits**
 Communication theory in its application to informal, face-to-face situations. Practical application of the impromptu speech relative to interpersonal communication. W

SPE 2440—Business and Professional Speaking **3 Credits**
 Designed for students going into management, human relations, communications, personnel management and the sciences where the individual must work on a person-to-person basis. Included in the course are units on presenting informative reports, using visuals, interview and conference techniques, and manuscript speaking. (No prerequisite) (Cross-listed as BUS 2440) F, W, Sp, Su

SPE 2450—Debate **3 Credits**
 A study of the principles of argumentation and debate, including analysis, briefing, evidence, reasoning, and refutation; class debating on vital questions. (Prerequisite: SPE 2410) F

SPE 2460—Speech Practicum I **1 Credit**

SPE 2470—Speech Practicum II **1 Credit**

SPE 2480—Speech Practicum III **1 Credit**
 Field experience courses offering practical experience for students working in on-campus and off-campus forensic activities. Each course carries one hour credit, and students may earn up to six credits by enrolling for one course each quarter. F, W, Sp

SPE 2710—Oral Interpretation **3 Credits**
 This course is to introduce students to the analysis of literature for the purpose of presenting it orally to an audience. It will include a study of those basic speech skills necessary for such presentation. Sp

SPE 2720—Fundamentals of Acting **3 Credits**
 Fundamentals of Acting will emphasize the mechanics (vocal and physical) of presenting a character on stage.

SPE 2730—Introduction to Theatre **3 Credits**
 A survey course in theatre covering the history and development of Western drama. This course will emphasize drama as production rather than as literature.

SPE 2740—Fundamentals of Theatrical Production **3 Credits**
 This course is designed to introduce students to the practical considerations of play production. It emphasizes theory and practice in the various areas of design and stage construction, introduces the students to meaningful rehearsal techniques and offers them the opportunity to apply acquired classroom skills to actual stage experience. Sp

SPE 2750—Theatre Practicum I **1 Credit**

SPE 2760—Theatre Practicum II **1 Credit**

SPE 2770—Theatre Practicum III **1 Credit**
 Field experience courses offering practical experience for students working in on-campus and off-campus technically oriented or performance oriented theatre activities. Each course carries one hour credit, and students may earn up to six credits by enrolling for one course each quarter.

TECHNOLOGY

TEC 1010—Man and Technology I **3 Credits**
 An introductory course which analyzes the problems that have developed in American society because of technological change. The scientific method as it applies to the world of work is considered. Primarily for special technology programs.

TEC 1030—Career Management Technology **3 Credits**
 A continuation of TEC 1010. Emphasis is placed on getting a job, job interview skills, job applications, good work habits, etc.

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 academic planning. 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 overall 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—Two or more classes 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.

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. No reinstatement possible.

Dismissal (Disciplinary)—Involuntary separation of a student from his/her college as a result of action taken because of misconduct. No reinstatement possible.

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—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 suspension. 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 suspended.

Remedial Studies—A program of studies in various subjects that is designed to develop basic competencies in academic areas.

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 another.

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.

Complaint Procedure for Affirmative Action, Comprehensive Employment and Training Act, Family Educational Rights and Privacy Act of 1974, Title VI, Title IX, and/or Section 504 of the Rehabilitation Act

A complaint may be filed by a present employee or student, former employee or student, or an applicant for employment at or admission to Roane State Community College who believes that discrimination against him/her has occurred or any employee or student who feels that practices at Roane State Community College will result in discrimination against him/her.

In the event a complaint cannot be resolved between an employee and the immediate supervisor, or a student and the Associate Dean of Student Activities, or when an applicant for employment or admission has a complaint, the complaint and the basis for it should be submitted in writing to the Affirmative Action Coordinator. All complaints must be signed and dated by the complainant.

The Affirmative Action Coordinator will conduct a preliminary investigation and present his/her findings to the Affirmative Action Task Force.

The Affirmative Action Task Force will make recommendations in writing (through the Affirmative Action Coordinator) to the President.

If a complainant is not satisfied with the decision of the President and desires further consideration of the complaint, he/she may file a request in writing for a hearing through the RSCC Hearing Procedure.

Roane State Community College reserves the right to amend, revise, and/or delete any information, policy and/or procedure stated herein upon reasonable notification and as approved by the Affirmative Action Coordinator and/or the President. Copies of this information in full and/or in part may be provided the inquirer by contacting the Office of Affirmative Action during its normal working hours or by writing:

**Affirmative Action Coordinator
Roane State Community College
Harriman, Tennessee 37748**

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