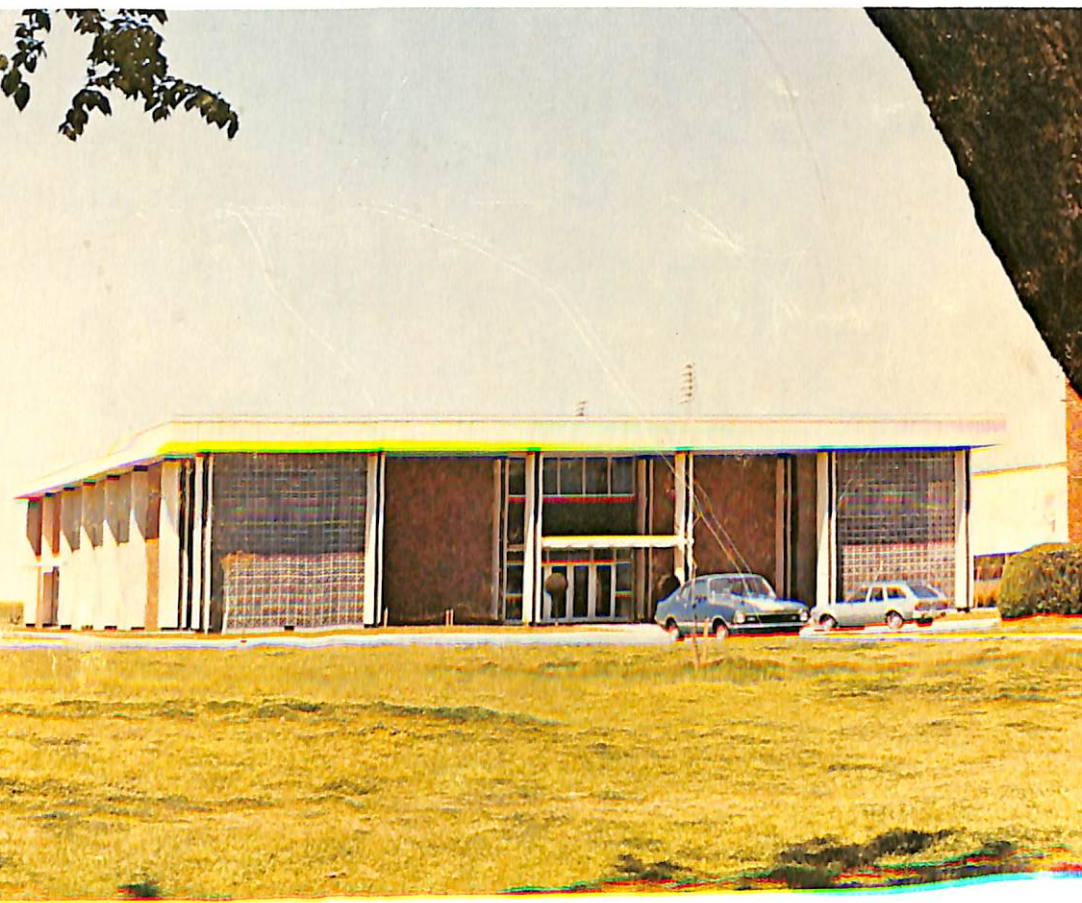


# CAMERON

## 1976-1977

CIRCULATION DESK



**a proud past... an adventurous present**

OKLAHOMA'S NEW UNIVERSITY OF THE GREAT PLAINS

**CAMERON UNIVERSITY**

**Annual Catalog**

**2800 Gore Boulevard  
LAWTON, OKLAHOMA 73501**



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## ACADEMIC CALENDARS

## DAY CALENDAR FOR 1976-77

## FALL 1976

Enrollment	Aug. 18-19
Classes Begin	Aug. 23
Holiday (Labor Day)	Sept. 6
Holiday (Veteran's Day)	Nov. 11
Holiday (Thanksgiving)	Nov. 25-26
Semester Exams	Dec. 13-17
Semester Ends	Dec. 17

## SPRING 1977

Enrollment	Jan. 12-13
Classes Begin	Jan. 17
Holiday (Washington's Birthday)	Feb. 21
Spring Vacation	Begins 4:30 p.m., March 11 Ends 7:30 a.m., March 28
Semester Exams	May 11-17
Semester Ends	May 17
Graduation	May 17

## SUMMER TERM 1977

Enrollment	June 1
Classes Begin	June 2
Holiday (Independence Day)	July 4
Term Ends	July 28
Graduation	July 28

## TENTATIVE DAY SCHOOL CALENDAR

1977-1978

## FALL 1977

Enrollment	Aug. 17-18
Classes Begin	Aug. 22
Holiday (Labor Day)	Sept. 5
Holiday (Veteran's Day)	Nov. 11
Holiday (Thanksgiving)	Nov. 24-25
Semester Exams	Dec. 12-16
Semester Ends	Dec. 16

Oct. 24 - *Deans Office*

## SPRING 1978

Enrollment	Jan. 11-12
Classes Begin	Jan. 16
Holiday (Washington's Birthday)	Feb. 20
Spring Vacation	Begins 4:30 p.m., March 10 Ends 7:30 a.m., March 20
Semester Exams	May 10-16
Semester Ends	May 16
Graduation	May 16

## SUMMER TERM 1978

Enrollment	May 31
Classes Begin	June 1
Holiday (Independence Day)	July 4
Term Ends	July 27
Graduation	July 27

## EVENING SCHOOL CALENDAR 1976-1977

## First Fall Session (1976)

Enrollment	4:30-7:00 p.m., Aug. 23
Classes Begin	7:00 p.m., Aug. 23 (M W Classes) 7:00 p.m., Aug. 24 (T Th Classes)
Holiday (Labor Day)	Sept. 6
Classes End	Oct. 14 (T Th Classes) Oct. 18 (M W Classes)

## Second Fall Session (1976)

Enrollment	4:30-7:00 p.m., Oct. 20
Classes Begin	7:00 p.m., Oct. 20 (M W Classes) 7:00 p.m., Oct. 21 (T Th Classes)
Holiday (Veteran's Day)	Nov. 11
Holiday (Thanksgiving)	Nov. 25-26
Classes End	Dec. 15 (M W Classes) Dec. 16 (T Th Classes)

## Winter Session (1977)

Enrollment	4:30-7:00 p.m., Jan. 12
Classes Begin	7:00 p.m., Jan. 12 (M W Classes) 7:00 p.m., Jan. 13 (T Th Classes)
Holiday (Washington's Birthday)	Feb. 21
Classes End	Mar. 8 (T Th Classes) Mar. 9 (M W Classes)

## Spring Session (1977)

Enrollment	4:30-7:00 p.m., Mar. 14
Classes Begin	7:00 p.m. Mar. 14 (M W Classes) 7:00 p.m., Mar. 15 (T Th Classes)
Spring Vacation	March 21-25
Classes End	May 11 (M W Classes) May 12 (T Th Classes)

## Summer Session (1977)

Enrollment	4:30-7:00 p.m., June 1
Classes Begin	7:00 p.m., June 1 (M W Classes) 7:00 p.m., June 2 (T Th Classes)
Holiday (Independence Day)	July 4
Classes End	July 26 (T Th Classes) July 27 (M W Classes)



## TENTATIVE EVENING SCHOOL CALENDAR 1977-1978

## First Fall Session (1977)

Enrollment	4:30-7:00 p.m., Aug. 23
Classes Begin	7:00 p.m., Aug. 23 (M W Classes)
	7:00 p.m., Aug. 24 (T Th Classes)
Holiday (Labor Day)	Sept. 5
Classes End	Oct. 13 (T Th Classes)
	Oct. 17 (M W Classes)

## Second Fall Session (1977)

Enrollment	4:30-7:00 p.m., Oct. 19
Classes Begin	7:00 p.m., Oct. 19 (M W Classes)
	7:00 p.m., Oct. 20 (T Th Classes)
Holiday (Veteran's Day)	Nov. 11
Holiday (Thanksgiving)	Nov. 24-25
Classes End	Dec. 12 (M W Classes)
	Dec. 15 (T Th Classes)

## Winter Session (1978)

Enrollment	4:30-7:00 p.m., Jan. 16
Classes Begin	7:00 p.m., Jan. 16 (M W Classes)
	7:00 p.m., Jan. 17 (T Th Classes)
Holiday (Washington's Birthday)	Feb. 20
Classes End	March 9 (T Th Classes)
	March 13 (M W Classes)

## Spring Session (1978)

Enrollment	4:30-7:00 p.m., March 20
Classes Begin	7:00 p.m., Mar. 20 (T Th Classes)
	7:00 p.m., Mar. 21 (M W Classes)
Spring Vacation	March 13-17
Classes End	May 10 (M W Classes)
	May 11 (T Th Classes)

## Summer Session (1978)

Enrollment	4:30-7:00 p.m., May 30
Classes Begin	7:00 p.m., May 30 (T Th Classes)
	7:00 p.m., May 31 (M W Classes)
Holiday (Independence Day)	July 4
Classes End	July 24 (M W Classes)
	July 25 (T Th Classes)



## BOARD OF REGENTS

OKLAHOMA STATE REGENTS  
FOR HIGHER EDUCATION

E. T. DUNLAP, <i>Chancellor</i> .....	Oklahoma City
JOE F. GARY, <i>Chairman</i> .....	Durant
JOHN J. VATER, JR. ....	Enid
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RUSSELL D. VAUGHT .....	Midwest City
JOHN H. PATTEN .....	Norman

BOARD OF REGENTS FOR THE OKLAHOMA STATE  
UNIVERSITY  
AND AGRICULTURAL AND MECHANICAL COLLEGES

JERRELL CHESNEY, <i>Secretary</i> .....	Oklahoma City
H. HARBER LAMPL, <i>Chairman</i> .....	Shawnee
EDWIN KETCHUM, <i>Vice-Chairman</i> .....	Duncan
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DEAN CATON .....	Oklahoma City
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JOHN W. MONTGOMERY .....	Poteau
ROBERT H. SMITH .....	Hobart
JON FORD .....	Oklahoma City



## ACCREDITATION

*Cameron University is accredited by the NORTH CENTRAL ASSOCIATION OF COLLEGES AND SECONDARY SCHOOLS and the OKLAHOMA STATE REGENTS FOR HIGHER EDUCATION.*

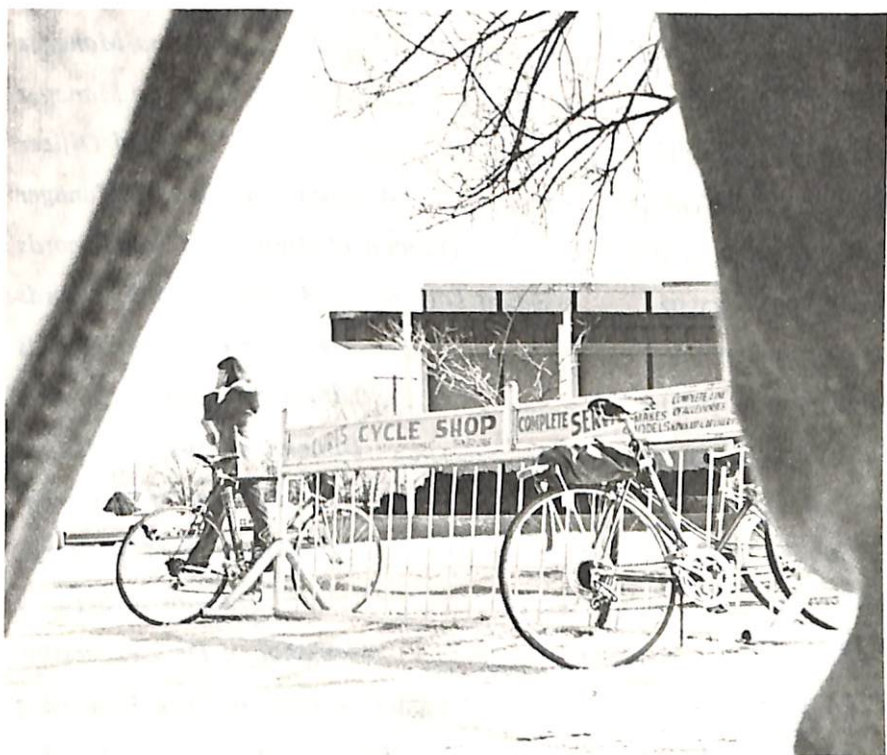
*The Teacher Education and Certification programs at Cameron University are accredited by the OKLAHOMA STATE BOARD OF EDUCATION. Approved graduates are recommended for teaching certificates in the elementary and secondary schools of Oklahoma.*

*The Baccalaureate Degree Program of the Department of Music at Cameron University is fully accredited by the NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC.*

*The Associate Degree Program of the Department of Nursing at Cameron University is fully accredited by the NATIONAL LEAGUE FOR NURSING.*

*The Cameron University Department of Nursing is also approved by the OKLAHOMA BOARD OF NURSE REGISTRATION AND NURSING EDUCATION. Graduates of this program are eligible to write the State Board Test Pool Examination for registered nurse licensure.*

*Because of the above recognition, Cameron University students and graduates are regularly accepted by other colleges and universities throughout the nation.*



## FACULTY AND STAFF

## ADMINISTRATION

DON OWEN .....	<i>President</i>
RICHARD MURRAY .....	<i>Dean of the University</i>
BOB QUINTEN .....	<i>Dean of Instruction</i>
FREEMAN McKEE .....	<i>Director of Institutional Research</i>
CHARLES P. BROWN .....	<i>Development Officer</i>
CHARLES ELKINS .....	<i>Dean of Student Services</i>
BETTY ROUNDTREE .....	<i>Associate Dean of Student Services</i>
WAYNE BEAN .....	<i>Associate Dean of Student Services</i>
WILLIAM LEE .....	<i>Director of Counseling</i>
FLAKE TODD .....	<i>Business Manager</i>
BURL HOLMES .....	<i>Assistant Business Manager</i>
JOHN STERLING .....	<i>Fiscal Officer</i>
BONNIE KENDALL .....	<i>Accounts and Budget Manager</i>
RAYMOND CHAPMAN .....	<i>Director of Admissions and Records</i>
JACK SEYMOUR .....	<i>Assistant Director of Admissions and Records</i>
ROBERT RICHEY .....	<i>Director of Financial Aids</i>
ROBERT S. PHILLIPS .....	<i>Director of Library Services</i>
RALPH WHITELEY .....	<i>Director of Public Relations</i>
J. D. McLEMORE .....	<i>Director of Placement</i>
BOB DELVER .....	<i>Director of Maintenance</i>
JOHN DUKE .....	<i>Director of Security</i>
DALE SARE .....	<i>Director of Data Processing</i>
TOM RUSSELL .....	<i>Assistant Director of Data Processing</i>
WARD WILLIAMS .....	<i>Director of Teacher Education</i>

## AUXILIARY ENTERPRISES

J. R. ALLISON .....	<i>Director of Auxiliary Services</i>
BENNIE LEE .....	<i>Bookstore and Student Union Manager</i>
LOUIS WHITELEY .....	<i>Director of Student Housing</i>
LOWELL WATTS .....	<i>Men's Residence Supervisor</i>
PAM HENDERSON .....	<i>Women's Residence Supervisor</i>



## FACULTY AND ADMINISTRATIVE STAFF

- ALLEN, MARY K., (1967) *Language Arts*, B.S., Wayland Baptist College; M.Ed., University of Oklahoma.
- AMYX, JACK F., (1965) *Chairman Business*, B.S., M.S., Ed.D., Oklahoma State University.
- ANDERSON, MARSHAL, (1975) *Biology*, B.S., M.S., University of Kansas.
- ALLISON, TONY, (1972) *Speech-Drama*, B.A., Abilene Christian College; M.A., Southwest Texas State University.
- ANDRUS, CHARLES, (1967) *Social Science*, A.B., Park College; M.Div., Louisville Presbyterian Theological Seminary; Th.M., Th.D., Ph.D., International Free Protestant Episcopal University.
- BEAN, WAYNE TERRAL, (1975) *Associate Dean of Student Services*, B.S., Central State University; M.Ed., East Texas State University.
- BEANEY, MARILYN, (1976) *Language Arts*, B.A., Oklahoma Baptist University; M.A., University of Oklahoma.
- BLAIN, MICHAEL J., (1973) *Social Science*, B.A., M.A., California State University; Ph.D., University of Colorado.
- BLODGETT, RALPH E., (1972), *Social Science*, B.A., M.A., Ph.D., University of Colorado.
- BOOTH, HERBERT, Major, (1973) *Military Science*, B.A., Cameron College.
- STRICKLAND, GAIL, (1975) *Nursing*, B.S., University of Southern Mississippi.
- BREWER, ALLEN, Sergeant Major (1973) *Military Science, Principal Drill Instructor*.
- BROOKS, NANCY, (1969) *Business*, B.B.E., M.B.E., University of Oklahoma.
- BROWN, CHARLES P., (1975) *Development Officer*, B.S., University of Oklahoma; M.B.A., New York University.
- BRUCE, JON, (1970) *Education and Psychology*, B.S., Panhandle A&M College; M.Ed., Abilene Christian College; Ed.D., Baylor University.
- BRYAN, JACK, (1967) *Chairman, Art*, B.F.A., University of Oklahoma; M.A., University of Tulsa.
- BURNETT, BEVERLY, (1974) *Nursing*, B.S., Cameron College.
- BYRD, ROY, (1965) *Chairman, Technology*, B.S., East Central State College; Post-Baccalaureate Certificate, University of Illinois; M.S., Oklahoma State University.
- CANNON, CAROL YVONNE, (1971) *Counselor*, B.A., Central State; M.S., University of Oklahoma.
- CARDWELL, SCHERREY P., (1971) *Language Arts*, B.A., St. John's College; M.A., Ph.D., University of Arkansas.
- CAROTHERS, BARBARA, (1975) *Education and Psychology*, B.S., Oklahoma College for Women; M.Ed., University of Oklahoma.
- CHAPMAN, RAYMOND, (1969) *Director of Admissions and Records*, B.S., Southwestern State College; M.Ed., University of Oklahoma.
- CHENOWETH, DON W., (1972) *Social Science*, B.A., University of Minnesota; M.A., Indiana University; Ph.D., St. Louis University.
- CHESTER, JAMES, (1976) *Business*, A.A., Cameron University; B.S., University of Science and Arts of Oklahoma; M.B.A., Western New England College.

- CONN, JIMMIE, (1973) *Nursing*, B.S.N., University of Oklahoma.
- COOPER, MICKEY, (1964) *Biology*, B.S., East Central State College; M.S. and Ph.D., Oklahoma State University.
- COSGROVE, DALE G., (1968) *Business*, B.S.B.A., M.B.A., University of Arkansas, C.P.A., Oklahoma.
- COTTINGHAM, JAMES, (1972) *Technology*, B.S., Arch. Engineering University of Oklahoma; Registered Architect in Oklahoma.
- COSGROVE, JUDY, (1976) *Mathematics*, B.S., M.S., University of Arkansas.
- COYLE, GAYLE, (1973) *Veteran's Affairs Officer*, B.S., Central State University; M.S., Oklahoma State University; M.A., University of Texas at El Paso.
- CRANE, JOE, (1969) *Physical Science*, B.S., M.S., Ph.D., Oklahoma State University.
- CREED, BRUCE, (1976) *Speech-Drama*, A.A., Altus Junior College; B.A., Southwestern Oklahoma State University; M.A., Western Kentucky University.
- DELVER, BOB, (1969) *Director of Maintenance*, B.S., Central State College; M.A., University of Oklahoma.
- DOANE, BENNIE, (1975) *Agriculture*, B.S., Oklahoma State University; M.S., University of Illinois.
- DOBBS, BERT, (1974) B.S., M.S., Arizona State University; M.B.A., Texas Tech University.
- DOVER, MONTY, (1973) *Student Services*, B.S., M.S., Oklahoma State University.
- EDMUNDSON, JOHN N., (1976) *Art*, B.F.A., University of Houston; M.F.A., Stephen F. Austin State University.
- ELLIS, KENNETH, (1974) *Education and Psychology*, B.S., East Central State College; M.S., Ed.D., University of Oklahoma.
- ELKINS, CHARLES R., (1962) *Dean of Student Services*, B.S., Oklahoma State University; M.Ed., University of Oklahoma.
- ENGELMAN, LYEVA, (1970) *Music*, B.F.A., Oklahoma State University; M.A., Eastman School of Music.
- EPPERSON, WAYNE E., (1968) *Biology*, B.S., M.S., Ph.D., Oklahoma State University.
- EWBANK, KATHRYN, (1968) *Speech-Drama*, B.A., M.A., University of Oklahoma; Ph.D., University of Oklahoma.
- FARMER, LOYAL, (1963) *Mathematics*, B.S., Northeastern State College; M.S., Florida State University; Ed.D., North Texas State University.
- FARRAR, ARTHUR, (1968) *Business*, B.S., Southwestern State College; M.S., Colorado College of Education; Ed.D., University of Oklahoma.
- FEES, BOYD, (1973) *Music*, B.S.M.E., Olivet Nazarene College, Kankakee, Illinois, M.M.E., University of Oklahoma.
- FINKE, WILLIAM C., (1966) *Physical Science*, B.S., Southeastern State College; M.T., Southwestern State College; Ph.D., University of Oklahoma.
- FIRE, HELEN, (1976) *Nursing*, B.S., Oklahoma City University.
- FLETCHER, WILLIAM, (1964) *Music*, B.M., M.M., University of Michigan.
- FLOOD, TOM, (1973) *Health and Physical Education*, B.S., Texas A&M; M.Ed., North Texas State University.

- FORD, BENNETT C., (1975) *Librarian*, B.A., Bellarmine College; M.L.S., University of Kentucky.
- GEDLING, ELLEN C., (1975) *Home Economics*, B.A., Georgetown College; B.S., M.A., Eastern Kentucky University.
- GILES, ROBERT H., (1967) *Music*, B.M.E., Baldwin Wallace College; M.M., University of Oklahoma.
- GITHENS, GRACE JOHNSTON, (1966) *Chairman, Home Economics*, B.S., Oklahoma College for Women; M.S., Ed.D., University of Oklahoma.
- GIVENS, REX J., (1975) *Business*, B.A., LLB, University of Oklahoma.
- GOODE, DEBORAH E., (1976) *Systems Analysis Programmer*, A.S., B.S., Cameron University.
- HAJEK, FRANCIS B., (1968) *Mathematics*, B.S., Peru State College; M.S., Ed.D., Oklahoma State University.
- HANKINS, ROSEMARY, (1972) *Physical Science*, B.S., East Texas State University; M.S., Ph.D., Texas Woman's University.
- HARDWICKE, ELIZABETH, (1976) *Language Arts*, B.A., Grove City College (Pennsylvania); M.A., University of Missouri.
- HARMON, JOHN C., (1964) *Biology*, B.S., Southeastern State College; M.S., North Texas State University.
- HARWOOD, WILLIAM, (1969) *Physical Science*, B.S., Trinity University; M.A., Ph.D., University of Texas.
- HAWK, IRA L., (1968) *Physical Science*, B.S., M.S., Oklahoma State University; Ph.D., Baylor University.
- HEFNER, LARRY, (1976) *Art*, B.F.A., M.F.A., University of Oklahoma.
- HEGEMANN, VICTOR, (1966) *Mathematics*, B.A., Wayne State College; M.N.S., University of Oklahoma; Ph.D., University of Missouri-Rolla.
- HICKMAN, JACK L., (1976) *Social Science*, B.S., M.S., Brigham Young University; Ph.D., Utah State University.
- HICKS, DOROTHY, (1970) *Technology*, B.S., Southwestern State College; M.Ed., University of Oklahoma.
- HICKS, J. C., (1970) *Chairman, Speech-Drama*, B.S., B.A., Southwestern State College; M.A., University of Oklahoma; Ph.D., University of Oklahoma.
- HILL, EDNA, (1976) *Nursing*, Cert. of Nursing., Wesley School of Nursing.
- HOGAN, STEPHEN, (1974) *Business*, B.B.A., M.B.A., University of Oklahoma.
- HOLEMAN, LOIS C., (1975) *Nursing*, R.N., Robert B. Green School of Nursing; B.A., M.Ed., Northeastern Oklahoma State University.
- HOLMES, BURL, (1975) *Assistant Business Manager*, B.S.Ed., Central State University; M.Ed., Southwestern Oklahoma State University; Administrator's Certificate, University of Oklahoma.
- HOLMES, LEIGH, (1975) *Language Arts*, B.S., University of Florida; M.A., University of Missouri; Ph.D., University of Kansas.
- HOPKINS, HOWARD R., (1968) *Biology*, B.S., Penn State University; M.S. and Ph.D., Oklahoma State University.
- HUCKABAY, GARY, (1974) *Mathematics*, B.S., Southwestern State College; M.A., University of Missouri; Ph.D., Oklahoma State University.
- JAMES, WILLIAM, (1975) *Education and Psychology*, B.S.Ed., M.T., East Central Oklahoma State University; Ed.D., Oklahoma State University.

- JENSEN, LESTER D., (1964) *Athletic Director*, B.S., East Central State College; M.T., Southwestern State College.
- JETER, JOHN S., (1968) *Business*, B.A., Harding College; M.B.A., University of Arkansas.
- JONES, CAROLYN, (1974) *Nursing*, B.S., St. Louis University.
- JONES, GAIL, (1969) *Technology*, B.S., M.S., Oklahoma State University.
- JONES, JOE LEE, (1976) *Health and Physical Education*, B.S., Oklahoma Baptist University; M.T., Southwestern Oklahoma State University.
- KENNEDY, IRA E., (1965) *Agriculture*, B.S., M.S., Oklahoma State University.
- KERVIN, SHELBY, (1975) *Technology*, A.S., B.S., Cameron University; M.A., University of Oklahoma.
- KRUGER, DELORES, (1970) *Chairman, Nursing*, B.S., South Dakota State University; M.S., Texas Woman's University.
- LAIR, MARILYN J., (1968) *Business*, B.S., Oklahoma College of Liberal Arts; M.B.E., Ph.D., University of Oklahoma.
- LAMBERT, JAMES W., (1976) *Music*, B.M.Ed., Baylor University; M.M., University of North Carolina.
- LANSDOWN, BETTE B., (1972) *Language Arts*, A.B., Northwestern State College; Ed.M., Phillips University.
- LAVENDAR, KEITH, (1968) *Physical Education*, B.S., East Central State College; M.T., Southwestern State College.
- LEE, WILLIAM, (1971) *Counselor*, B.S., Langston University; M.T., Southwestern State College.
- LOOP, CURTIS, CAPTAIN, (1974) *Military Science*, B.S., Oregon State University; M.S., University of Southern California.
- LYNN, CLARK, JR., (1966) *Language Arts*, B.S., U.S. Military Academy; M.Ed., University of Oklahoma.
- McCABE, VERNE, (1973) *Speech-Drama*, B.A., Oklahoma Baptist University; M.A., Central Missouri State University.
- McCLUNG, PARK, (1971) *Business*, B.B.A., Marshall University; M.S., Colorado State University.
- McCOLLUM, TOM, (1969) *Music*, B.M., Oklahoma State University; M.M., Yale University.
- McCOY, DOYLE, (1969) *Chairman, Biology*, B.S., East Central State College; M.S., University of Oklahoma; Ph.D., Oklahoma State University.
- McKEE, FREEMAN, (1971) *Institutional Research*, B.S., Panhandle A&M College; M.S., Ed.D., Oklahoma State University.
- McKELLIPS, KAREN, (1968) *Education and Psychology*, B.S., Southwestern State College; M.S., Ed.D., Oklahoma State University.
- McKELLIPS, TERRAL, (1968) *Chairman, Mathematics*, B.S., Southwestern State College; M.S., Ed.D., Oklahoma State University.
- McKEOWN, LOREN F., (1969) *Chairman, Language Arts*, B.A., M.Ed., University of Oklahoma; Ed.D., Oklahoma State University.
- McKINLEY, M. LOUISE, (1970) *Home Economics*, B.S., M.Ed., University of Oklahoma; Ed. D., Oklahoma State University.
- McLEMORE, J. D., (1967) *Director of Placement*, B.S., M.T., Southwestern State College.

- McMAHAN, MARGIE, (1973) *Home Economics*, B.S., Oklahoma State University; M.Ed., Oklahoma State University.
- MAILEY, SHARON, (1973) *Nursing*, B.S.N., University of North Carolina.
- MAPLES, VAL D., (1957) *Physical Education*, B.S., Southeastern State College; M.S., Oklahoma State University.
- MARTIN, DAVID L., (1970) *Chairman, Agriculture*, B.S., Oklahoma A.&M.; M.S., Oklahoma State University.
- MARTIN, SHIRLEY, (1969) *Music*, B.A., University of Northern Iowa; M.A., Claremont Graduate School.
- MARTINEZ, JOHN, (1973) *Business*, B.A., University of Texas; M.S., University of Oklahoma.
- MATHIS, JANICE M., (1975) *Technology*, B.S., Southwestern Missouri State University; M.S., University of Missouri.
- MERAZ, EMMITT, (1959) *Mathematics*, B.S., Southeastern State College; M.E., University of Oklahoma.
- MERRITT, MARTELLE, (1967) *Home Economics*, B.S., M.Ed., Ed.D., University of Oklahoma.
- MILLER, DAVID H., (1970) *Chairman, Social Science*, B.A., M.A., University of Utah; Ph.D., University of New Mexico.
- MILLER, RAYMOND, (1970) *Physical Education*, B.A., Southwestern State College; M.E., University of Oklahoma.
- MUNZINGER, RICHARD C., (1976) *Health and Physical Education*, B.A., Colorado College; M.S., Wichita State University.
- MOOTS, JOHN, (1973) *Music*, B.M.Ed., M.M.Ed., Wichita State University.
- MORRIS, JAMES KENT, (1968) *Mathematics*, B.S., Southwestern State College; M.T., Central State College; Ed.D., North Texas State University.
- MORTON, ZELDA GOODSON, (1976) *Nursing*, B.A., Oklahoma City University; M.S., Northeastern Missouri State University.
- MURRAY, RICHARD, (1969) *Dean of the University*, B.S., Southeastern State College; M.A., Ph.D., Texas Tech University.
- MUSSELEWHITE, LYNN RAY, (1971) *Social Science*, B.A., Abilene Christian College; M.A., Ph.D., Texas Tech University.
- NALLEY, ELIZABETH ANN, (1969) *Physical Science*, B.S., Northeastern State College; M.S., Oklahoma State University; Ph.D., Texas Woman's University.
- NETHERLAND, EDWIN LANE, (1972) *Biology*, B.S., Huntington College, M.S. and Ed.D., Oklahoma State University.
- NEWELL, SHERRY ANNE, (1975) *Language Arts*, B.A., B.S., Baker University; M.A., University of Kansas.
- NICHOLS, LONNIE, (1973) *Health and Physical Education*, B.S.Ed., Midwestern University; M.Ed., West Texas State University.
- NORRIS, JAMES ROBERT, (1970) *Social Science*, B.A., Centenary College; M.A., University of Denver; Ph.D., Washington State University.
- O'DONNELL, TIMOTHY E., Staff Sergeant, (1973) *Military Science, Supply Supervisor*.
- OLSON, DWIGHT, (1970) *Mathematics*, B.S., Jamestown College; Ph.D., University of Wyoming.

- ORR, JACK, (1967) *Biology*, B.A., Harding College; M. Nat. Sci., University of Oklahoma.
- OVERTON, JERRY V., (1972) *Social Science*, B.S., M.S., Oklahoma State University.
- OWEN, DON, (1969) *President*, B.S., Central State College; Ed.M., Ed.D., University of Oklahoma.
- PARKER, DEWEY, (1970) *Education and Psychology*, B.A., Central State University; M.Ed., Ed.D., University of Oklahoma.
- PATE, EUGENE F., (1964) *Speech-Drama*, B.S., State College of Arkansas; M.A., University of Arkansas.
- PAYNTER, JOHN, (1973) *Reference Librarian*, B.A., Central State University; M.L.S., University of Oklahoma.
- PERKINS, GARY, (1976) *Military Science, Master Sergeant, Assistant MS Instructor*.
- PESTONJEE, SHIRIN FALI, (1975) *Nursing*, B.S.N., University of Oklahoma.
- PHILLIPS, EDDIE, (1967) *Mathematics*, B.S., M.E., University of Oklahoma; M.A., Louisiana State University.
- PHILLIPS, ROBERT S., (1974) *Director of Library Services*, B.A., Bethany Nazarene College; M.L.S., University of Oklahoma.
- PICKTHORN, DAVID, (1975) *Music*, B.M., North Texas State University; M.S., Kansas State University.
- POGUE, DWIGHT, (1971) *Art*, B.F.A., Kansas State College; M.F.A., University of Oklahoma.
- POLSTON, RONALD, (1976) *Health and Physical Education*, B.S., M.T., Southwestern Oklahoma State University.
- PRICHARD, CHARLES H., (1971) *Education & Psychology*, B.A., M.T., Central State University; Ed.D., Oklahoma State University.
- PROPHET, DONALD P., (1947) *Agriculture*, B.S., M.S., Oklahoma State University.
- QUINTEN, BOB, (1969) *Dean of Instruction*, B.A., East Central State College; M.A., Oklahoma State University; Ph.D., University of Oklahoma.
- RABURN, JOSEPHINE, (1967) *Language Arts*, B.S., M.L.S., University of Oklahoma.
- RADCLIFFE, STANLEY, (1968) *Music*, B.A., M.A., Colorado State College.
- RAMSEY, ALLAN, (1975) *Language Arts*, B.S., East Texas State University; M.A., Stephen F. Austin State University.
- REDDOUT, DONNA, (1976) *Language Arts*, B.A., Oklahoma State University; M.A., University of Arkansas.
- REDWINE, LESLIE C., CAPTAIN, (1972) *Military Science*, B.S., North Georgia College; M.S., Georgia Institute of Technology.
- RENFRO, SUE B., (1974) *Social Science*, B.A., Ouachita Baptist University; M.S., University of Georgia.
- RICHEY, ROBERT, (1970) *Director of Financial Aids*, B.S., M.T., Southwestern State College.
- RIECKE, CAROLL, (1970) *Mathematics*, B.S., Central Missouri University; M.S., Oklahoma State University; Ph.D., University of Houston.

- ROBINSON, GEORGE R., (1976) *Health and Physical Education*, B.B.A., University of Oklahoma.
- ROUNDTREE, BETTY L., (1967) *Associate Dean of Student Services*, B.S., East Central State College; M.Ed., University of Oklahoma.
- RUBIN, MARY, (1973) *Education and Psychology*, B.S.Ed., Arizona State University; M.Ed., University of Arizona.
- SARE, DALE IRVIN, (1970) *Technical*, B.S., Oklahoma State University; M.S., Kansas State University.
- SCOTT, JERALD R., (1973) *Technology*, B.S., Southwestern State College; M.S., Fort Hays Kansas State College.
- SEALS, THELMA JOLLY, (1959) *Physical Science*, B.S., Oklahoma State University; M.Ed., University of Oklahoma; M.S., Oklahoma State University.
- SEAMANS, ELDON L., (1968) *Social Science*, B.A., Maryville College; M.Div., McCormick Theological Seminary; Ph.D., International Free Protestant Episcopal University.
- SEYMOUR, C. JACK, (1965) *Assistant Director of Admissions and Records*, B.A., Kearney State College; M.T., Central State College.
- SEYMOUR, WANDA SUE, (1974) *Business*, B.S., M.S., Oklahoma State University.
- SHAHAN, BILL G., (1967) *Chairman, Physical Education*, B.S., M.T., Central State College.
- SHANAHAN, LAWRENCE B., (1972) *Language Arts*, B.S., M.A., Marquette University; Ph.D., University of Wisconsin.
- SHANAHAN, MARY S., (1972) *Language Arts*, B.S., M.S., Ph.D., University of Wisconsin.
- SHAW, WANDA, (1968) *Art*, B.S., M.S., Kent State University.
- SIMPSON, PHILLIP M., (1971) *Social Science*, B.A., M.A., North Texas State University; Ph.D., University of Arizona.
- SIRCY, OTICE C., (1968) *Language Arts*, B.A., University of Texas; M.A., North Texas State University.
- SIRCY, VIRGINIA, (1968) *Music*, B.M., North Texas State University; M.M., Michigan State University.
- SKRDLE, NANCY, (1969) *Technical Processing Librarian*, B.S., Oklahoma College for Women; M.L.S., University of Oklahoma.
- SLUSHER, BILLY J., LTC, (1973) *Chairman, Military Science*, B.A., University of Oklahoma.
- SMITH, ARTHUR, (1969) *Music*, B.M., M.M., Cincinnati Conservatory of Music; Ph.D., University of Oklahoma.
- SMITH, CHARLES WAYNE, (1970) *Social Science*, B.A., William Carey College; M.A., Ph.D., University of Southern Mississippi.
- SMITH, GENE C., (1973) *Music*, B.M., M.M., Baylor University.
- SMITH, GEORGE F., (1969) *Chairman, Music*, B.M.E., M.M.E., University of Oklahoma; Ed.D., North Texas State University.
- SMITH, PAUL WILLIAM, (1964) *Education and Psychology*, B.S., Central State College; M.Ed., University of Oklahoma.
- SNIDER, THEODORE, (1968) *Physical Science*, B.S., M.S., Kansas State College of Pittsburg; Ph.D., Oklahoma State University.

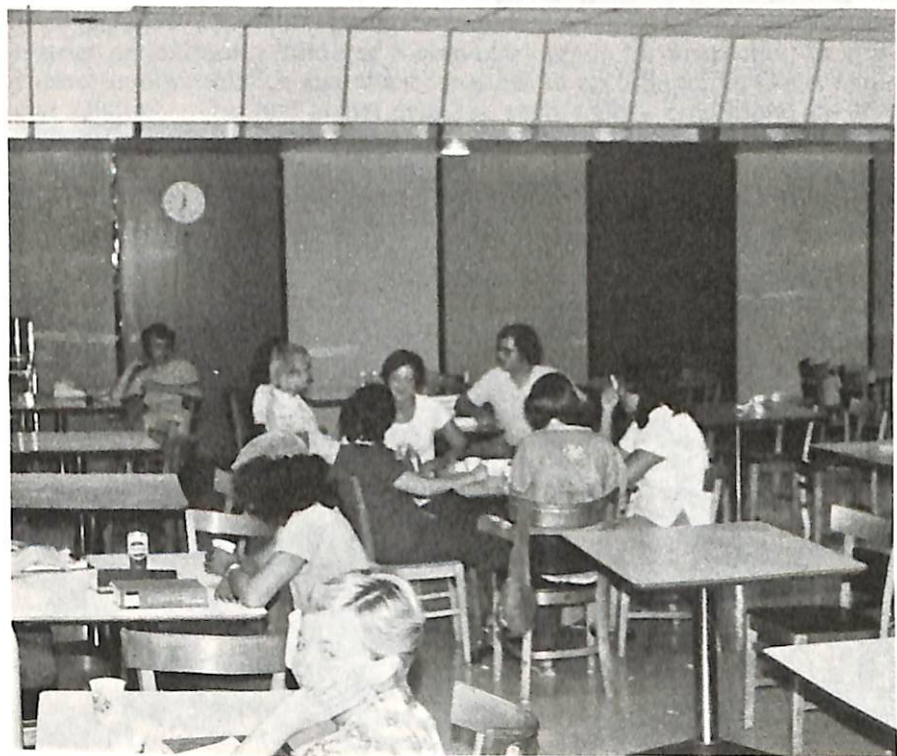
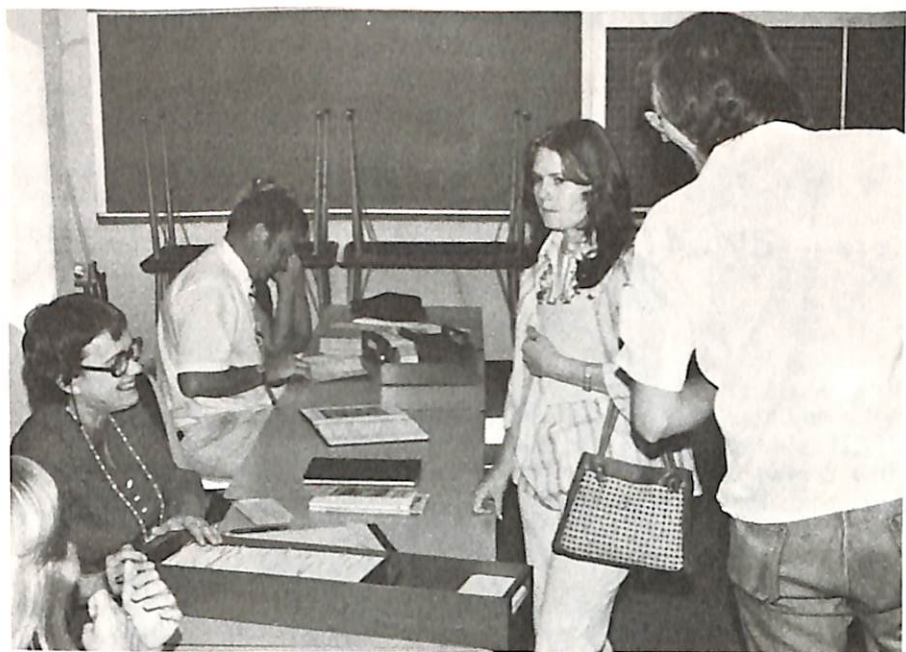
- SOLSTAD, KENNETH, (1972) *Language Arts*, B.A., Yale University; M.A., Ph.D., University of California at Berkeley.
- SOSNOW, PHYLLIS O., (1975) *Business*, B.S., University of Vermont; MBA, University of Chicago.
- SPEARS, JOHN, (1976) *Health and Physical Education*, B.S., M.T., Southwestern Oklahoma State University.
- SPESSARD, MILTON L., (1964) *Library Cataloguer*, B.B.A., M.L.S., University of Oklahoma.
- SPRADLEY, TERRY P., (1966) *Technology*, B.A., Oklahoma City University, M.S., Ed.D., Oklahoma State University.
- STANLEY, GEORGE E., (1970) *Language Arts*, B.A., M.A., Texas Tech University; D.Litt., University of Port Elizabeth.
- STANTON, JIMMY H., (1968) *Physical Science*, B.S., Delta State College; Ph.D., University of Mississippi.
- STEGMAIER, MARK J., (1975) *Social Science*, B.A., University of Santa Clara; M.A., Ph.D., University of California at Santa Barbara.
- STERLING, JOHN, (1971) *Fiscal Officer*, B.S., East Central State College, CPA.
- STEVENS, MARION D., (1966) *Social Science*, B.A., Northeastern State College; M.A., Eastern New Mexico State University.
- SUTHERLIN, TOM, (1972) *Technology*, B.S., Oklahoma State University; Certified Engineering Technician.
- SWOPE, H. JOANN, (1970) *Language Arts*, B.S., M.A., Central Missouri State; Ph.D., Kansas State University.
- TERRY, TAYLOR BROOKS, (1965) *Language Arts*, B.A., Southern Methodist University; M.A., University of Texas at El Paso.
- THOMAS, CHARLES, (1971) *Music*, B.M., Southern Methodist University; M.M., University of Oklahoma.
- THOMPSON, JUDY, (1971) *Mathematics*, B.S., M.S., East Texas State University.
- TODD, FLAKE, (1969) *Business Manager*, B.A., Central State College; M.E., University of Oklahoma.
- TYLER, JACK D., (1967) *Biology*, B.S., Southwestern State College; M.S., Oklahoma State University; Ph.D., University of Oklahoma.
- TYSON, LAWANDA, (1971) *Education and Psychology*, B.S., East Texas Baptist College; M.Ed., Ph.D., East Texas State University.
- VAN REST, ANDRE W., (1974) *Business*, B.A., M.A., University of Missouri at Kansas City.
- VOWELL, BOBBY GENE, (1964) *Chairman, Physical Science*, B.S., Oklahoma State University; M.S., University of Oklahoma; Ed.D., Oklahoma State University.
- WAGNER, HARRY, (1969) *Mathematics*, B.S., Naval Postgraduate School; M.S., Kansas State Teachers College; Ed.D., University of Arkansas.
- WARREN, LESLIE BENSON, (1974) *Art*, B.S., M.A., M.F.A., Stephen F. Austin State University.

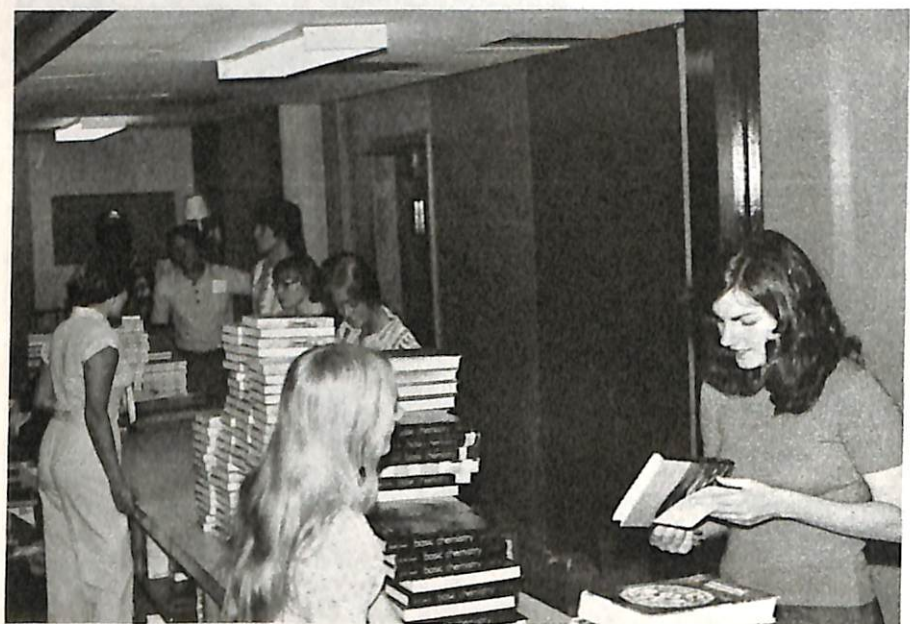
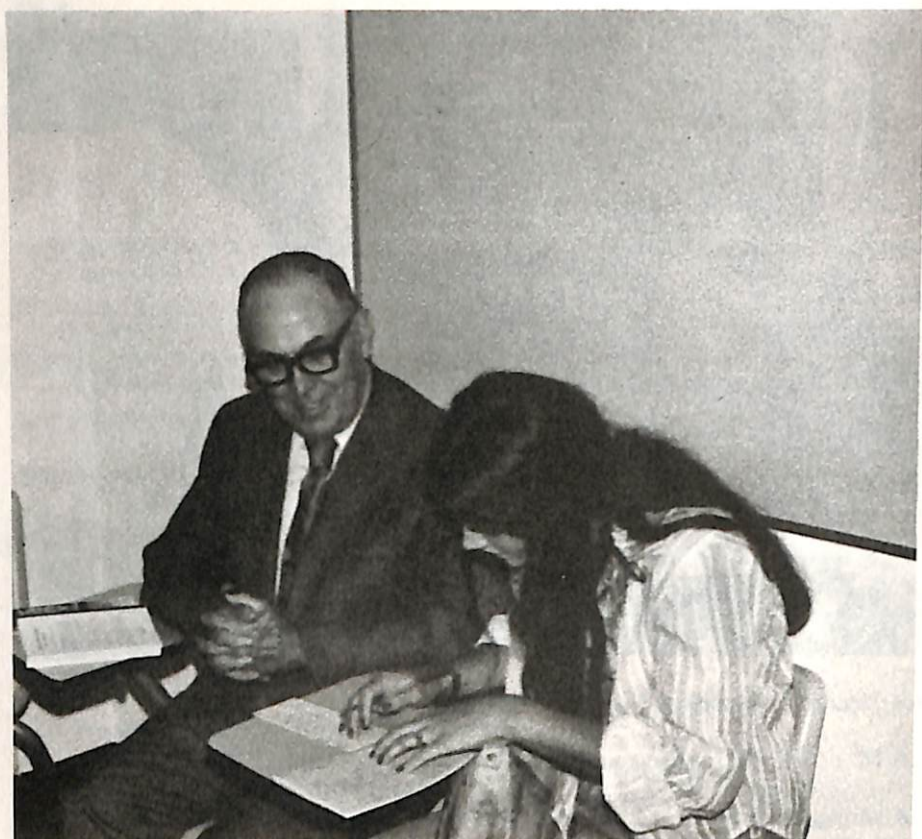


- WHITE, DONNA B., (1974) *Education and Psychology*, B.A., Texas Woman's University; M.S., East Texas State University.
- WHITELEY, LOUIS GUY, (1972) *Director of Housing*, B.S., Central State College.
- WHITELEY, RALPH W., (1969) *Director of Public Relations*, B.A., Central State College; M.A., Western Colorado State College.
- WILLIAMS, MAC, (1976) *Speech-Drama*, B.A., Angelo State University; M.A., Trinity University.
- WILLIAMS, WARD, (1968) *Chairman, Education and Psychology*, B.S., M.Ed., Ed.D., University of Oklahoma.
- WILLIS, MARLENE, (1974) *Social Science*, B.A., B.S.Ed., M.A., Northeast Missouri State University.
- WILSON, VICKI, (1972) *Physical Education*, B.S., San Francisco State; M.S., University of Oklahoma.
- WOOD, DOROTHY, (1973) *Nursing*, B.S., Oklahoma City University; M.A., University of Oklahoma.
- WRIGHT, FRANCES, (1947) *Social Science*, B.A., Oklahoma College for Women; M.A., University of Oklahoma.
- WYNN VALREE F., (1966) *Language Arts*, B.A., Langston University; M.A., Ph.D., Oklahoma State University.
- YOUNG, DAVID, (1974) *Speech-Drama*, B.A., Abilene Christian College; M.A., University of Oklahoma.
- ZIEGLER, BOB, (1968) *Biology*, B.S., M.S., Fort Hays State College.

### EMERITUS FACULTY

- BEAVERS, BLANCHE, (1942) *Business*, B.S., Oklahoma College for Women; M.C.E., University of Oklahoma. 1974
- BREWER, BURNEY H., (1959) *Social Science*, B.S., Central State College; M.Ed., University of Oklahoma. 1972
- CLAIBORNE, RAY, (1967) *Social Science*, B.S., Central State College; M.Ed., University of Oklahoma. 1970
- ELLIOTT, HELEN, (1940) *History and Government*, B.A., McPherson College; M.A., University of Kansas; Graduate Study, University of Oklahoma and University of Southern California. 1970
- GRAY, THOMAS A., (1966) *Language Arts*, B.A., Milligan College; M.T., Southwestern State College. 1975
- HINES, JESSIE MAY, (1946) *Language Arts*, B.A., Central State College; M.A., Oklahoma State University. 1972
- OSWALT, MALCOLM, (1946) *Technical Education*, B.A., Southwestern State College; M.I.Ed., University of Oklahoma. 1973
- PAINÉ, GORDON, (1948) *Registrar*, B.A., M.S., University of Oklahoma. 1970
- PUGH, NEVA, (1969) *Education and Psychology*, B.S., Southwestern State College; M.Ed., Ed.D., Oklahoma University. 1973
- TOBIAS, DOROTHY, (1943) *Physical Science*, B.S., M.S., Oklahoma State University. 1971





# HISTORY—FACILITIES—FUNCTIONS

## HISTORY

Cameron University is located in the city of Lawton, a city of 75,000 people approximately 100 miles southwest of Oklahoma City. The city is served by the Frisco and Rock Island Railroads, H. E. Bailey Turnpike, U.S. Highways 62 and 277 and State Highway 7 with excellent bus connections in all directions. Frontier and Continental Airlines have a total of ten flights daily into Lawton.

The history of Cameron University corresponds to the history of the territory which it serves; early-day residents of southwestern Oklahoma vigorously demanded and supported plans for equalizing educational opportunities for their children. Since high schools during the pioneer period of the area were few in number and were often located in remote areas, many students desiring higher education were denied the opportunity because of limited facilities and limiting economic factors. The history of Cameron reflects the fulfillment of this pioneer desire for education for young people.

On May 20, 1908, the State Legislature of Oklahoma created six district agricultural schools of a secondary grade for instruction in agriculture and mechanics and allied branches in each Supreme Court Judicial District. The law stated that for each school established no less than eighty acres of land would be provided without cost to the State. These schools were to be under the administration of the State Commission of Agriculture and Industrial Education.

Realizing the need for such a school in the area, and desiring a school of this type in Lawton, a group of businessmen, working with the Chamber of Commerce, purchased 160 acres of land two miles west of the City and presented it to the State as an inducement to the State's locating the school at Lawton.

Cameron State School of Agriculture, named for E. D. Cameron, then State Superintendent of Schools, was located temporarily in the basement of a Lawton business building. In November, 1909, the school opened with a faculty of six members and a student body of one hundred and eight students. In March, 1911, the institution moved in to a three-story brick building on the present site of Cameron.

Junior College work was added by an act of the Legislature passed on March 24, 1927, at which time the name of Cameron State Agricultural College was adopted. During the period from 1927 to 1940, both high school courses and college work were offered, with the first Junior College graduation occurring in 1929. In 1940, all high school work was discontinued, and Cameron assumed status as a two-year Junior

College. Operating under the Oklahoma State System of Higher Education since 1941, the college has continued to implement its pioneer heritage.

In September, 1966, Cameron's President and staff were notified by the Oklahoma State Regents for Higher Education that the function of Cameron had been changed from a two-year junior college to a baccalaureate degree-granting institution. The transition began shortly thereafter with the first baccalaureate degrees being awarded in May, 1970. In keeping with the spirit of the transition, efforts were undertaken to change the name of the institution to one that would more accurately depict the general nature of the college. In April, 1971, the President of the institution was notified that Cameron State Agricultural College had become Cameron College.

Three years later, in May of 1974, the Oklahoma Legislature decided that Cameron College should be redesignated as Cameron University. On August 16, 1974, ninety days after the bill was signed into law, the name officially became Cameron University.

## ACADEMIC FACILITIES

*Administration Building (ADM)*, a new two-story, air-conditioned structure with full basement was completed in the summer of 1969. It houses the offices of the President, the Dean of the University, the Dean of Instruction, the Business Manager, the Dean of Students, and the Directors of Admissions and Records, Data Processing, Financial Aids and Public Relations.

*The Biological Sciences Building (BIO)*, completed in the spring of 1962, is a modern two-story brick, air-conditioned fireproof building housing classrooms and laboratories of the Biological Science Department.

*Burch Hall (BUR)*, completed in August 1968, is a two-story, air-conditioned building with carpeted classrooms and is located north of the Gymnasium. It houses the Departments of Mathematics, Military Science, and Drafting and Electronics laboratories.

*The Graphics Barn and Art Gallery (GB)*, an arched white concrete barn, is situated adjacent to the Maintenance Department Office on the west side of the campus. This famous W.P.A. structure houses the Art Gallery and is a studio facility for Graphics, Painting and Drawing.

*The Gymnasium (GYM)*, a 140 x 140 modern Physical Education Building of brick, concrete and steel construction completed in March of 1957, has a seating capacity of 1800 by means of individual operable seats. The plant contains a large basketball court, a weights room, boys' and girls' dressing rooms, and offices for the Physical Education staff.

*Howell Hall (HOW)*, a new classroom building, was completed in June, 1968 and is located east of the Gymnasium. It is also two story, air-conditioned and has carpeted classrooms. It houses the Departments of Business, Home Economics, and the Modern Language laboratories.

The *Library (LIB)*, a two-story brick air-conditioned building, was completed in the spring of 1964. It houses the University Library which has a collection in excess of 134,000 volumes, numerous pamphlets, and bound periodicals. The Library subscribes to more than 900 current magazines, the *New York Times*, and 12 newspapers. In accordance with modern library practice, the books are arranged on the open shelf plan which enables students to browse at will and thus to become acquainted with the entire collection.

*Nance-Boyer Hall (NB)* is situated in the center of the campus. The three-story central section of this brick structure was constructed in 1929. It originally served as a combination administration and classroom building, and continues to provide a majority of the classrooms for the Departments of Agriculture, Education and Psychology, Language Arts and Social Science. It also contains the offices of the Agriculture faculty and the Journalism staff.

The two-story south wing of Nance-Boyer Hall was constructed in 1949, and first functioned as a Library. It was recently renovated and air-conditioned, and presently includes some classrooms and offices for all of the Nursing faculty and a majority of the Language Arts faculty.

The two-story north wing of Nance-Boyer Hall, which was constructed in 1953, initially included an auditorium, rehearsal areas for the Music Department and some faculty offices. In 1975, this structure was completely remodeled, and converted into modern air-conditioned office space for the Office of Student Services, the Veterans Affairs Officer, the Counseling, Testing and Reading Centers and the Department's of Education and Social Science. The Education Department's complex includes a spacious and well-equipped audio-visual laboratory.

*The Old Baptist Student Union (OBSU)* was acquired by the University during the Spring of 1975. It now provides one large combination classroom and laboratory for the Department of Speech-Drama. The members of the Speech and Drama faculty are also being temporarily officed in this structure.

*The Physical Sciences Building (PS)*, was completed in January of 1964. It is also a two-story, air-conditioned fireproof building and houses laboratories and classrooms for chemistry, geology and physics.

*Rehearsal Hall (RH)*, formerly the Church of Christ Bible Chair, is situated on the east side of 28th street. It provides office, classroom, and studio space for the Department of Music.

*The Sculpture Barn (SB)* is located southeast of the Maintenance Department office on the west side of the campus. This large metal structure serves as a studio space for sculpture, art fundamentals, art education, ceramics and jewelry.

*South Hall (MUS)*, is located to the south of the Student Union. It houses the Music Department office, classrooms, studios, and practice rooms.

Cameron University operates a number of satellite laboratories, which include the University Farm, portable driver education and computer graphics units and a complex of Physical Education training areas.

Much of the long-range planning of physical facilities for Cameron University was prepared in 1969 by architects Richard Kuhlman, Joseph Rodgers and Charles Goins. The study, entitled "Campus Plan 1985" was financed by a grant from the McMahan Foundation. New facilities at Cameron will be consistent with the suggestions presented in the study.

The first phase of the building program calls for the construction of a fine arts center which will house the music, art, and speech-drama departments. An auditorium will also be included in the complex of four separate buildings. Funds for this project were made available by the Oklahoma State Regents for Higher Education in the fall of 1975 and construction got underway in the spring of 1976. The center should be completed early in 1977.

## FUNCTIONS

On June 27, 1967, the Oklahoma State Regents for Higher Education officially adopted the following statement of functions for Cameron University:

1. To provide the educational services of a senior college for the population center of Comanche County and surrounding area.
2. To provide a program of general education for all students designed to develop common understandings, to foster good citizenship, and to promote the development of each individual as a responsible person.
3. To provide pre-professional programs of less than baccalaureate degree length for students planning to transfer into professional programs at other colleges and universities.
4. To provide instructional programs in technical and occupational education of less than a baccalaureate degree, culminating in the awarding of an Associate in Arts or an Associate in Science degree or an appropriate certificate of accomplishment.

5. To provide four-year programs of instruction in the liberal arts and sciences culminating in the awarding of the Bachelor of Arts or Bachelor of Science degree.
6. To provide on-campus programs of adult and continuing education, both for degree credit and non-degree credit.
7. To provide off-campus degree credit classes for adults, compatible with classes authorized to be offered on the main campus.
8. To provide, consistent with the resources available, a program of community services designed to improve the cultural, economic, moral, and social environment of the geographic area in which the institution is located.
9. To provide special programs of collegiate instruction suited to the needs of the military personnel at Fort Sill.
10. To provide four-year programs in Military Science leading to the completion of requirements for the Department of Army Reserve Officers' Training program.

## OBJECTIVES

Cameron University is a multi-purpose state-supported university whose primary objective is to offer appropriate educational programs to persons living in its service area. The university recognizes that the educational process includes the development of the intellectual, cultural, social, physical, moral, and occupational capacities of persons who participate in its program. The university undertakes to promote insight into democracy and its bearings upon common problems; to perpetuate, enrich, and improve the state, national, and international cultural heritage; to assist all individuals to contribute to the common good of society by developing both personal integrity and occupational competency; and to encourage the development of creative ability.

To carry out the primary objective, the university recognizes three main areas of endeavor. Each area, as described below, has its own aims and objectives and contributes in a significant way to the primary objective of the university.

## EDUCATION FOR EFFECTIVE LIVING

This area of the students' education is designed to provide common experiences which are needed by all citizens if they are to live effectively. It incorporates approaches which encourage the student to think clearly, creatively, and critically about those problems which confront him and his society; it frees the student from the tyranny of ignorance, prejudice, apathy and the provincialism of time and place; it assists the student to function effectively in the groups of which society is composed; and it gives the student the desire to continue the pursuit of knowledge whereby he may better understand himself and his society.



## EDUCATION FOR SPECIALIZED FIELDS OF ENDEAVOR

The purpose of specialized education is to develop the technical and professional competencies of individuals in order that they may meet the demands and requirements of modern professions.

The university recognizes three realms of specialized education:

### Specialized Arts and Science Baccalaureate Programs.

Arts and sciences education provides for a comprehensive background and concentrated investigation in one or more specialized fields, intending thereby to develop that receptivity to new ideas which stimulates intellectual curiosity. The Arts and Sciences curricula prepare students for entrance into professions, for further professional training, or for graduate work in the academic disciplines.

### Occupational Associate Degree Programs.

The university recognizes that occupational preparation is significant to an individual and to society. The university further realizes that a post secondary education program having less than a baccalaureate objective is an essential part of meeting the objectives of the university as well as those of society and certain individuals. The experiences necessary for the achievement of maximum technical competence in the student's chosen occupation are provided.

### Teacher Education.

The purpose of Teacher Education is to develop competent teachers. In addition to his general education experiences, the student secures an in-depth preparation in an Arts and Sciences discipline and professional knowledge and skills necessary for the prospective teacher to become an effective member of the profession and assume an active role in our society.

## EDUCATION FOR COMMUNITY SERVICE

The university attempts to serve individuals, business, industry and the professions of this area by providing facilities and leadership. It organizes and promotes, on campus and in community centers, conferences, institutes, workshops, and credit or non-credit courses for vocational, cultural, and avocational purposes. It affords cultural enrichment of the area through the sponsorship of lectures, musical and dramatic productions, and art exhibits and workshops. It also encourages study and research by means of providing leaves of absence, space, and facilities for research projects sponsored by the university and agencies outside the university.

# ADMISSIONS

## ADMISSION TO CAMERON UNIVERSITY

Students seeking admission to Cameron University must present to the office of Admissions and Records the following:

1. Official high school transcript (also, previous college transcripts for transfer students).
2. American College Test scores.
3. Completed "Application for Admission" form.
4. Physical Examination form completed by personal physician.

The admissions forms may be secured from the Office of Admissions and Records, Cameron University.

More detailed information pertaining to admission requirements for the State of Oklahoma is listed below.

## ADMISSION OF STUDENTS

**RESIDENTS:** Rules for admission for Residents of Oklahoma, adopted by the Oklahoma State Regents for Higher Education, are as follows:

1. Any resident of Oklahoma who is a graduate of an accredited high school, who has participated in the American College Testing Program, and who meets at least one of the following requirements, is eligible for admission.
  - (1) Maintained an average grade of "C" or above in four years of his high school study (2.0 or higher on a 4.0 scale.)
  - (2) Ranked scholastically among the upper three-fourths of the members of his high school graduating class.
  - (3) Attained a composite standard score on the American College Testing Program which would place him among the upper three-fourths of all high school seniors, based on twelfth grade national norms.

An individual not eligible for admission as stated above may, if he is a high school graduate and has participated in the American College Testing program, be admitted "on probation" for study in any summer session or one semester following high school graduation. A student admitted under this provision who (a) carries a semester-hour load of six or more hours and (b) achieves a grade-point average of 1.6 or higher (based on a 4.0 scale) will be eligible for continued enrollment in the fall semester.

2. Any adult resident of Oklahoma (18 years of age or over) who is not a high school graduate is eligible for provisional admission as a special student to an institution in The Oklahoma State System of Higher Education as follows:
  - (a) His high school class must have been graduated prior to the date of his application.
  - (b) He must have attained a composite standard score on the American College Testing Program which would qualify him under the aptitude test criterion in effect for the institution to which he is making application.
  - (c) In the event he is not eligible for admission as provided in Item 1-b above, his application may be reviewed by a faculty committee appointed by the president of the institution. If, in the considered judgment of the committee, the applicant is worthy, and if he has been able to achieve a satisfactory score on the General Educational Development Test (GED), the applicant should be admitted.

The provisional admission will be probationary for a period of two semesters. If at the end of that time, he has made satisfactory progress (see retention standards), he may continue to enroll as a regular college student.

3. A student transferring from another accredited college in Oklahoma is eligible for admission provided the student is in good standing and his records meet the scholastic standards of this institution.
4. Transfer students whose scholastic records do not meet minimum standards may be admitted on probation for a semester or term on the same basis as a Cameron University student doing unsatisfactory work may be permitted to continue on probation.
5. The transfer student is required to file with the committee on admission a formal admission application and to provide official transcripts of all his college records, and such additional records and information as may be needed for the committee to consider and pass on the application. All such records become the property of the college and a part of the student's permanent record. It is the responsibility of the student transferring from another college to check with the Registrar's Office concerning evaluation of such records.
6. Junior College Work: Credit for acceptable work done in an accredited two-year junior college in Oklahoma is applicable on the first 64 semester hours of college work. None may apply on the last 64 hours for a bachelor's degree.

**NON-RESIDENTS:** Rules for admission for non-residents of Oklahoma, adopted by the Oklahoma State Regents for Higher Education, are as follows:

1. A non-resident of Oklahoma applying to study as a first-time entering freshman at any institution in the Oklahoma State System of Higher Education must be a graduate of a high school accredited by the Regional Association or by an appropriate accrediting agency of his home state, and must have participated in the American College Testing Program or a similar acceptable battery of tests. In addition, he must meet one of the following requirements.
  - (a) Ranked among the upper one-half of the members of his graduating high school class.
  - (b) Attained a composite score on the American College Testing Program, or a similar acceptable battery of tests, which would place him among the upper one-half of all high school seniors, based on twelfth grade national norms.
2. Undergraduate non-resident students by transfer from other accredited colleges:

Transcripts of record from colleges or universities accredited by the North Central Association or other regional associations will be given full value.

  - (a) Each non-resident undergraduate applicant must be in good standing in the institution from which he plans to transfer.
  - (b) Each non-resident undergraduate applicant must have made satisfactory progress (an average grade of "C" or better) in the institution from which he plans to transfer.
3. For institutions not accredited by a regional association, the recommendations contained in the current issue of the *Report of Credit Given by Educational Institutions*, published by the American Association of Collegiate Registrars and Admissions Officers, will be followed.
  - (a) Each non-resident undergraduate applicant must meet the conditions of 2(a) and 2(b) above.

## RESIDENT STATUS OF ENROLLED STUDENTS IN THE OKLAHOMA STATE SYSTEM OF HIGHER EDUCATION

(Revised on December 16, 1974)

NOTE: Bracketed insertions are intended to aid in application of these regulations to various student situations.

### SECTION 1. *Attendance at an Institution of Higher Learning.*

Attendance at an educational institution is interpreted as temporary residence; therefore, a student neither gains nor loses resident status

solely by such attendance. [A nonresident student of majority age, or an emancipated minor, generally remains a nonresident so long as he remains in attendance continuously. If he establishes actual residence in Oklahoma for reasons entirely or mainly unrelated to college attendance, he may attain resident student status only after a period of at least twelve consecutive months following such establishment of actual residence.]

*SECTION 2. Attendance at an Institution of Higher Learning while on Active Duty in the Armed Services.*

A student who is attending an institution while on active duty in the Armed Services is considered as having a temporary residence in the state in which he is attending school; therefore, a student neither gains nor loses resident status solely by such military service. Members of the armed services, stationed in Oklahoma, and their wives, husbands and/or children shall be admitted without the payment of the nonresident fee so long as they continue to be stationed in the State in full-time military services and under military orders; provided, however, that a member of the armed services who is relieved of part or all of his normal military duties so that he may attend college as a full-time student will be classified on the same basis as a student who has no connection with the military service. [Full-time students (as considered for residence regulations, and not necessarily in other instances) are those enrolled in 12 or more credit hours during a regular semester; 6 or more credit hours during a summer term.]

*SECTION 3. Students who are married.*

A nonresident citizen of the United States who marries an Oklahoma resident may receive resident status classification at the beginning of the next semester following such marriage. A resident person who marries a nonresident shall keep his or her resident status as long as continuous attendance as a full-time student is maintained or as long as domicile is maintained within Oklahoma. An alien who marries an Oklahoma resident may be granted resident student classification at the next enrollment occurring after expiration of twelve months following the establishment of domicile in Oklahoma.

*SECTION 4. Students who are Minors; Emancipation of Minors.*

For the purpose of determining resident status at an institution of higher learning, a minor is defined as a male or female under 18 years of age. The residence of [an unemancipated] minor child is that of his father; or that of his mother if his father be not living or if the parents are separated and the child habitually resides with the mother; or, if both parents are dead, that of his legally appointed guardian or anyone else with whom he habitually resides in the absence of formal legal designation. A minor may become emancipated [freed from his parental domicile] through marriage, formal court action, abandonment by parents, or positive action on his own part evidential of his alienation of

parental domicile. To qualify under the latter category, a minor must have completely separated himself from the parental domicile and have proved that such separation is complete and permanent. Mere absence from the parental domicile is not proof of its complete abandonment. If an applicant can provide adequate and satisfactory proof of complete emancipation and of his having come to Oklahoma with the intention of establishing domicile, he may be granted resident student classification at the next enrollment occurring after expiration of twelve months following establishment of domicile in Oklahoma.

#### SECTION 5. *Students who are Adults.*

If a person enjoying majority privileges can provide adequate and satisfactory proof of his having come to Oklahoma with the intention of establishing domicile, he may be granted resident student classification at the next enrollment occurring after expiration of twelve months following the establishment of domicile in Oklahoma [provided he has not changed his domicile since that time]. Such twelve months' prior residence shall not be required in the case of a person who provides evidence of having come to Oklahoma to work full time or practice a profession or conduct a business full time and who enrolls in not more than four credit hours per semester in an academic year or three credit hours in a summer session. The dependent spouse of such person may be granted resident student classification at the first enrollment following establishment of domicile in Oklahoma.

#### SECTION 6. *Parents moving into Oklahoma.*

If it is clear that parents have moved into Oklahoma with every intention of remaining permanently and of establishing themselves as citizens of the State, the dependent children of such parents may be classified as residents at the first enrollment after the parents move into the State. If the parents of [such a dependent] resident student [a person actually enrolled] establish their home in another state with the intention of establishing domicile there, the student shall at the first enrollment after twelve months from the date of establishment of said home by his parents be classified as a nonresident student; however, the student may continue in resident status if he reaches the age of 21 within the twelve-month period, or if he establishes evidence of complete emancipation. [For this regulation, a student not enrolled in the summer, when his parents move from Oklahoma, is entitled to the twelve-month extension of residence status if he completed the preceding spring semester with residence status.]

#### SECTION 7. *Students Who Are Not Citizens of the United States.*

An individual who is not a citizen of the United States may become eligible for classification as an Oklahoma resident for purposes of attendance at an educational institution provided that he holds "permanent resident status" as classified by the Immigration and Naturalization Service, (this classification status is typically designated by the issuance

of a green card to eligible recipients), and who meets the criteria as set forth in Section 8 of this policy statement.

#### SECTION 8. *Proof of Residence.*

The burden of proof of residence shall be upon the applicant. Some of the various types of evidence that may serve as proof of one's residence in Oklahoma are: year-round residence, ownership of property, registration for and voting in state general elections, filing an Oklahoma income tax return for the most recent calendar year, and payment of ad valorem property taxes. It is the intent of the policy that an individual eligible for enrollment as a resident student in state-supported institutions of higher education must have been domiciled in Oklahoma for a period of at least twelve months and established himself as a bona fide resident of the state.

### FALSIFICATION OF RECORDS

The falsification of any admission record, whether by change, by omission, or untrue statement will be sufficient grounds for permanent denial of admission to the university; or if the student is attending classes, for suspension from the university with forfeiture of any credit earned.

### AMERICAN COLLEGE TESTS

Cameron University participates in the American College Testing program. Each student entering Cameron is required to take the American College Test. The student's scores on this test, designed to measure the student's achievement in English, mathematics, social studies and natural sciences, are kept on file with the student's academic record in the Admissions Office. The test scores are used to supplement the academic records and other information that the University has assembled regarding each student, and the information is used in counseling with students concerning their educational and vocational plans.

### ADMISSION OF JUNIOR COLLEGE GRADUATES

Cameron University cooperates in a reciprocal transfer agreement between the college and certain Oklahoma Junior Colleges. Students from cooperating colleges who have completed either the Associate of Arts or Associate of Science degree in a transfer program will be accepted as having fulfilled the lower division general education requirements. The only additional lower division general education requirements which would be imposed on such students would be if students

lacked prerequisites for upper division courses, if students had not performed at the grade-level required of Cameron students in similar courses, or if professional licensing or certifying agencies had requirements greater than those prescribed in the reciprocal agreement.

Students who transfer to Cameron prior to the completion of an Associate degree of the type described above will be evaluated by Cameron on a course-by-course basis. Comparable courses taken at state accredited junior colleges will transfer at full value.

### RE-ADMISSION

Any former Cameron student who did not attend Cameron during the previous academic year must file another Application for Admission form. The application should be submitted at least one month (and preferably earlier) prior to the beginning of the semester in which he plans to re-enter.

### FRESHMAN ORIENTATION

All freshman students are required to participate in an Orientation and Advance Registration Program on campus during June and July prior to the semester in which they plan to enroll at Cameron University. This is a cooperative program sponsored by the Office of Student Services with the assistance of members of the Student Senate, faculty, administration, and upperclassmen. Such an orientation eliminates many of the difficulties that students frequently encounter in adjusting to college life. It includes test interpretation, counseling, general registration procedures, and small group discussion sessions relating to studies and problems of college life.

After the Orientation Program, each student will be provided an opportunity to pre-enroll for the next semester; each student will have a faculty person to assist him in preparing his enrollment schedule. Books and supplies may also be purchased during the Orientation session. The Admissions Office sends complete details of the Orientation Program to each freshman student that is admitted to Cameron University. Request for additional information should be addressed to the Office of Student Services, Cameron University.





## PROCEDURES AND REGULATIONS

### ENROLLMENT

*Academic Advisors*—Before entering college, a student should thoroughly check the major fields of study offered at Cameron in order to determine the field best suited to his interests and needs. Before starting enrollment each student should tentatively select his major field. His designated academic advisor will counsel with the student regarding his proposed major and choice of courses and approve both.

*Course Loads*—A normal academic load for a regular semester is sixteen hours, which includes any evening or extension classes in which a student may enroll. Students who wish to take more than eighteen semester hours in a regular semester or nine hours in a summer term must obtain permission for such overloads from the Dean of Instruction.

Students carrying twelve or more semester hours of work are classified as full-time students for college classification purposes. The Veterans Administration requires the student to carry a minimum of twelve hours in order to receive full Veteran's benefits.

*Concurrent Enrollment in Another Institution*—Full-time Cameron University students, those enrolled in twelve hours or more during a regular semester or in eight hours or more during a summer term, must have the prior approval of the Dean of Instruction in order to concurrently enroll for credit in any other college or university.

*Classification of Students*—Freshmen are those students who at the beginning of the academic year have less than 28 semester hours of credit; sophomores, those with 28 or more semester hours, but less than 60; juniors, those with 60 or more, but less than 90; seniors, those with 90 or more hours who have not received a degree; special students, those who are not working toward a degree.

*Course Numbering System*—All courses are numbered in terms of four digits. The first digit indicates the class year in which the subject is ordinarily taken. The last digit indicates the credit hours given for the course. The two middle digits identify the course within the department. For example, a course numbered 2013 should be interpreted as a sophomore course carrying three semester hours of credit.

Freshmen may not enroll in courses numbered 3000 and above without special permission, nor may sophomores enroll in 4000 courses without permission.

*Credits*—All credits are given in terms of semester hours. A semester hour consists of one hour of class work or two or three hours of laboratory work each week for the semester.

*Registration*—Every student is required to pre-enroll prior to the beginning of the academic term or to register during the designated enrollment period. The student's enrollment is not complete until the proposed course of study is approved by his advisor and all tuition and fees are paid.

Any person attending class or doing the work in a course for which he has not registered in advance will not receive credit for the work so done.

*Pre-enrollment*—Students not on academic probation may pre-enroll at a specified time prior to regular enrollment. This service provides the student the opportunity of selecting a more appropriate schedule of courses.

*Late Enrollment*—No student will be permitted to enroll in a regular semester after the second week of classes or in a summer session after one week of classes without special permission from the Dean of Instruction. Any student enrolling after classes begin will pay a late enrollment fee, and of course will make up all work of the classes in which he enrolls.

*Auditing*—No student will be allowed to attend class regularly as a visitor or auditor without an auditing card from the Director of Admissions.

Students may enroll in a credit course as an auditor on a non-credit basis for informational instruction only. Auditors are not held responsible for the work expected of regular students and receive no grade or credit for the course. Test participation is the prerogative of the instructor. Regular attendance at class is expected, however, and auditors are subject, the same as regular students to being dropped from the course for excessive absences (in this event auditors receive a "W").

Credit may not be earned in a course taken as an auditor except by re-enrollment for credit in and completion of the course with a satisfactory grade.

## RETENTION STANDARDS

A first semester freshman who fails to make a 1.00 (D) scholastic average during his first semester in college, figured on the total number of hours attempted for that semester, will be placed on scholastic probation for the next semester. Other students who drop below a 1.5 average in any semester will also be placed on scholastic probation.

Retention standards as set up by Oklahoma State Regents for Higher Education and applicable to students at Cameron are as follows:

For continued enrollment at any institution in the State System, a student must have earned a cumulative grade point average as indicated below:

At the end of two semesters (24 to 36 hours attempted) .....	1.40
At the end of four semesters (37 to 72 hours attempted) .....	1.60
At the end of six semesters (73 to 108 hours attempted) .....	1.80
Further study after 108 semester hours attempted .....	2.00

A student who achieves a grade-point average of 2.00 or above in the last semester in which he was enrolled will be considered to be making satisfactory progress regardless of his cumulative grade-point average.

Any student not maintaining satisfactory progress toward his study objective as indicated above will be placed on probation for one semester, at the end of which time he must have met the minimum standard required in order to continue as a student.

A senior who has failed to meet the cumulative grade-point average of 2.00 may enroll in an additional 15 semester hours in further attempt to achieve the requirements for graduation.

The student who has been suspended from the University because of poor grades is not eligible to apply for re-admission until a minimum of one full semester has elapsed.

## CLASS ATTENDANCE

Cameron University's official policy on excessive absences is based upon an assumption that conscientious class and laboratory attendance is essential to the student's total education. Students who at any time during a given term are found to have been excessively absent from a particular class may thus be dropped from the class. The course grade recorded for such a student will be "W", a "WF" or an "F" and will be determined by the instructor's assessment of the circumstances in each individual case.

Because a wide variety of instructional strategies and methodologies are utilized within the University, a specific number of absences may be considered tolerable in one class but regarded as clearly excessive in another class. Consequently, at the beginning of every term, all instructors will carefully define and/or quantify their attendance standards and will also announce their procedures for verifying unavoidable absences and their methods of dealing with missed assignments and exams. It is the student's responsibility to note these procedures and to consistently and carefully follow them.

## STUDENT CONDUCT

The rules and regulations for the conduct of students attending Cameron University are listed in several official University publications including the Student Handbook and this catalog.

Student violations of these rules and regulations are reviewed by administrative officers having disciplinary responsibilities. The decisions made by these officers are subject to appeal, either administratively or by proper referral to special hearing committees. The recommendations of these appeal bodies, however, must be reviewed by the President of the University, since final disciplinary authority rests with him.

When a student is suspended or dismissed for disciplinary reasons, this fact shall be recorded on the student's records. The grades recorded for the student for that semester shall be determined in the same way as if the student had withdrawn voluntarily and any refund of fees shall be determined by the regular refund policy.

## GRADING SYSTEM

The grading system used at Cameron is as follows:

A	.....	Superior
B	.....	Above Average
C	.....	Average
D	.....	Lowest Passing Grade
S	.....	Satisfactory
	(Passing; quality of work not indicated)	
F	.....	Failure
I	.....	Incomplete
W	.....	Withdrawn while passing
WF	.....	Withdrawn while failing
	(Counts as an F in computing grade point average)	

Grade Points: Students earn grade points as follows:

A	.....	4 points per semester hour
B	.....	3 points per semester hour
C	.....	2 points per semester hour
D	.....	1 point per semester hour
F	.....	0 points per semester hour

If a course is repeated, both grades are used in computing the grade point average. (Repeating a course does not remove the previous grade from the student's record.) A grade of "W" or "S" has no effect on the student's grade point average; the hours involved are excluded from the computation.

An incomplete is given to a student whose grade average is passing but who, because of illness or some other unavoidable circumstances,

may not complete the course at the end of a semester or summer term. Students granted an "I" in a course have until the end of the next full semester to submit incomplete work required by the course.

Students failing to complete required work within one full semester after the "I" was granted will receive the grade of "F". However, such students may with the permission of the appropriate department chairman, re-enroll in the course at Cameron the next semester or term the course is offered. Upon satisfactory completion the "I" in the incomplete course will be changed to a "W" and the student will be granted the grade earned in the repeated course.

## GRADE REPORTS

Semester grade reports are mailed to the parents of all unmarried students under the age of eighteen. Grade reports of other students are mailed to their home address. Grades will be withheld if the student does not have all required student information on file in the Admissions Office or if other obligations to the University have not been met.

In addition to semester grades, notification of low grades (D's and F's) that the student may have at the close of the seventh week of the semester is provided.

Information concerning student's grades and personal records will be released to outside agencies only at the individual's request. The detailed policy statement regarding release of student information is found in the Student Handbook.

## DROPPING A COURSE OR WITHDRAWAL FROM THE UNIVERSITY

Students who enroll in a class at Cameron University reserve places for themselves which can not be made available to other students unless and until they officially withdraw from the classes. Every semester some students are denied admission to classes for which they have special need or in which they have strong interest because these classes are already filled.

An add-drop period is provided for a limited time at the beginning of each semester or term to allow shifting of schedules and to permit the placement of new students in any class vacancies which may have developed.

Except when there are critical personal reasons, withdrawal from classes after the add-drop period is strongly discouraged. By the end of the regular period for adds and drops, instruction has normally progressed to a point where a new student would be under too much handicap to successfully make up the work. A class vacancy thus occurs which might have been filled if the withdrawal had occurred during the specified time.

1. A student desiring to withdraw completely from school must secure a withdrawal form from the Admissions Office, have it properly signed and deposit it at the Business Office.
2. If withdrawal occurs during the first nine weeks of the semester the student will receive a grade of "W" in each course in which he is enrolled. After the first nine weeks a grade of "W" will be granted in each course in which the student has a passing grade, and a grade of "WF" in those courses in which he is failing.
3. (a) A student desiring to drop a single course must secure the proper card at the Admissions Office, have it approved by his or her instructor, return it to the Admissions Office and then deposit it at the Business Office.  
(b) A student desiring to add courses or rearrange his or her schedule in any way must secure the proper card at the Admissions Office, have it approved by his or her instructor, bring the card back to the Admissions Office for necessary corrections, and then deposit it at the Business Office.
4. The conditions stated in (2) will determine the grade received when a single course is dropped.
5. The deadline for changing courses will be no later than the end of the second full week of instruction or end of first week in summer session. A student may not withdraw from a single class within the last two weeks of a semester or within the last week of a summer session.

## SUBSTITUTION AND WAIVER OF COURSES

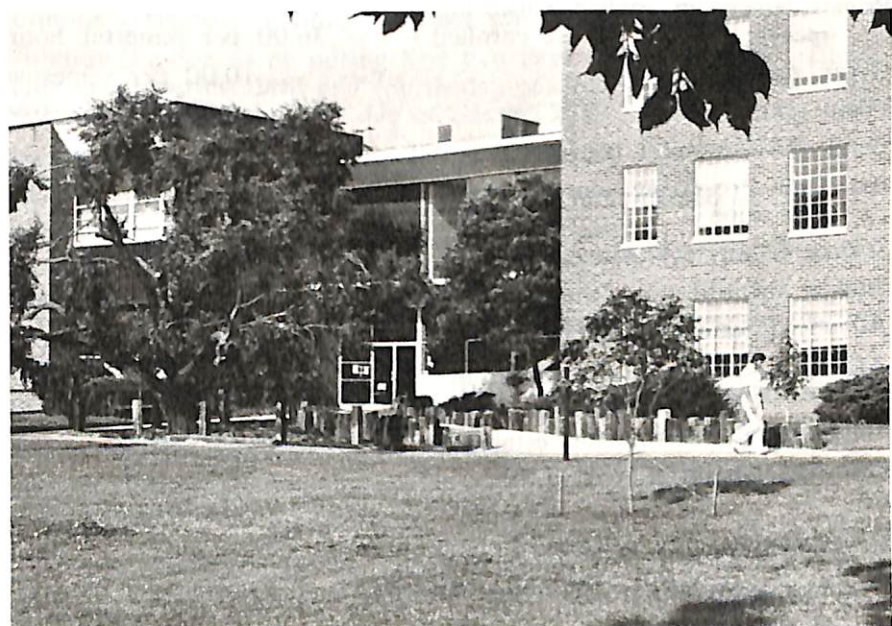
Requests to substitute or waive courses that are designated as necessary to fulfill general education requirements, to fulfill major or minor requirements, or to obtain credit for any other course listed in the university catalog must be approved by (1) the Chairman of the department offering the course involved, (2) the Chairman of the student's major department, and (3) the Dean of Instruction. A form for substituting and waiving courses may be obtained from the Registrar's office.

When the student has obtained all three signatures required on this form he should turn it into the Registrar's office. The Registrar will then place copy of the form with the student's folder, send a copy to the Chairman of the department in which the course is offered, and deliver a third copy to the chairman of the student's major department.

Permission for any other exception to stated requirements—e.g. number of upper division hours, the residency requirement—should be obtained from the Dean of Instruction. A letter granting such exceptions will be placed with the student's folder in the registrar's office and a copy sent to the Chairman of the student's major department.



THE UNIVERSITY BUILDING  
AND THE LAW BUILDING





## FEES AND EXPENSES

All students, residents and nonresidents, are charged a general fee which includes the individual charges for registration, library, and laboratory.

### GENERAL FEES:

Oklahoma Residents	
Lower Division	\$12.45 per semester hour
Upper Division	13.45 per semester hour
Non-resident of Oklahoma	
Lower Division	\$31.20 per semester hour
Upper Division	44.20 per semester hour
Extension Courses Fees	16.50 per semester hour
Audit, Without Credit	Same charge as regular fee
Workshops	13.00 per semester hour

### SPECIAL FEES: (In addition to General Fees listed above)

Private lessons in applied music and speech	18.00 per semester hour
Semi-private lessons in applied music and speech	7.50 per semester hour
Private lessons in applied music and speech if not otherwise enrolled	36.00 per semester hour
Organ rental	10.00 per semester
Piano rental	3.00 per semester
Band and Orchestra Instrument rental	3.00 per semester
Art, Data Processing and Physical Education	Cost of materials and/or services used
Science Laboratory courses	Cost of breakage
Student Identification Card and Services	1.00 per semester
Advanced Standing Examination	5.00 per credit hour
American College Testing Program (Residual Test)	7.50
Standardized Test at a rate established by the National Testing Agency	
Late Enrollment fee	1.00 per day (Maximum \$5.00)
Re-enrollment after withdrawal	5.00
Course Change (For each course added or dropped)	1.00

Transcript (Per copy after first one)	1.00
Welding Fee	Cost of Materials used
Automobile Parking Permit:	
Semester	5.00
Summer Term	2.50
Evening Term	1.00
Graduation Fee:	
Associate Degree	6.00
Bachelors Degree	10.00
Stadium Fee (all full-time students)	5.00 per semester
Yearbook Picture (all full-time students)	1.00 per year

**REFUNDS**

*Withdrawal From School or Individual Classes*

**Fall and Spring Semester**

Withdrawal prior to or during first week of the semester, 80% refund.  
 Withdrawal during second week of the semester, 50% refund.  
 Withdrawal during third week of the semester, 25% refund.  
 Thereafter, no refunds.

**Summer Session, Evening Classes, On-Duty Classes**

Withdrawal prior to or during first two days of classes, 80% refund.  
 Withdrawal during third and fourth day of classes, 50% refund.  
 Withdrawal during the fifth day of classes, 25% refund.

**Workshops**

Withdrawal prior to beginning of workshop, 80% refund.  
 Withdrawal after the workshop begins, no refunds.

**Refunds of Rent and Board:**

Refunds of Room and Board payments may be made for the following reasons:

1. A cancellation in writing to the Business Office on or before August 1.
2. Nonadmission to the University.
3. Withdrawal or dismissal from the University.
4. Marriage during the term.

More specific details pertaining to the refunds of room and board payments are contained in the housing contract or may be obtained from the Business Office.

## LIVING EXPENSES

Full-time Cameron University students (those enrolled in twelve or more semester hours during the fall or spring semester or six or more semester hours in a summer term) are required to live in university housing facilities, to the extent that such facilities are available, as follows:

1. Those single students who do not reside in the residence of their parents or legal guardian.
2. Those single students employed by the university who are paid from state funds.
3. Those single students who are the recipients of athletic scholarships.

Room and board costs for students living in university housing are as follows:

For double room in 10-story air-conditioned residence halls, per semester \$531.00; for single room \$635.00.

*Room and Board are payable in advance, but arrangements may be made to pay them in four installments rather than paying the whole semester's amount at one time.*

*Students living in the residence halls are required to take their meals in the university dining hall. The university reserves the right to change at any time the charge for board if any food prices necessitate or permit a change. A meal ticket may be used only by the person purchasing the ticket. Its use by any other person will cause forfeiture of the ticket.*

A deposit of twenty dollars (\$20.00) is required for room reservations. If the student finds that he will be unable to attend school, a refund will be made provided notification is given prior to August 1. The \$20.00 deposit or trust fund, less actual loss or breakage caused by the student, will be refunded at the end of the school year. However, if student moves from the residence hall during the semester and breaks his contract, the \$20.00 room deposit will be forfeited.





# STUDENT SERVICES AND SPECIAL PROGRAMS

## GUIDANCE SERVICES

The Guidance program at Cameron University is dedicated to the total development of each student by assisting the student in establishing guidelines for both social and personal development in an increasingly complex society. It is the purpose of the Guidance and Counseling program to help students mature personally, socially, educationally, and vocationally.

## COUNSELING SERVICES

The Counseling Center provides a full range of direct and consultative services to students, faculty, staff, and organizations at Cameron University. Services offered include the following:

*Personal Counseling.* A staff of professionally trained counselors are available to provide counseling related to personal, social, group, work, or home problems.

*College Information.* Facts about college environment, educational opportunities, scholarships, loan funds, etc., are available to students. A library of almost 400 graduate and undergraduate catalogs may be used for students seeking transfer or graduate information.

*Orientation.* The first time student receives a thorough introduction to Cameron University. Orientation includes an overview of the campus life and focuses on areas of importance to the new student.

*Career Selection.* Students receive assistance in general career selection and planning. Career information is available in the forms of references, films, files, occupational handouts, etc.

*Educational Planning.* Students are assisted in general tentative scheduling prior to first time enrollment and at any time a change in majors is decided upon. In educational planning for upper classmen, department chairmen and faculty advisors are to be consulted regarding specific required courses and their sequence.

## TUTORIAL LABORATORIES

*The Reading Center.* Located in the north wing of Nance-Boyer Hall, the Reading Center assists students in improving skills of comprehension, vocabulary, study skills and rate. A service of the Department of Education and Psychology, the Reading Center is staffed by specialists who are experienced in diagnosing and eliminating reading and study problems. A student visiting the Reading Center is tested to determine the materials best suited to the identified problems, then given a program of individualized instruction designed to strengthen reading and/or study skills.

*The Physical Science Tutorial Program.* During the 1971-1972 academic year, a tutorial program was initiated in the Physical Science Department of Cameron University. This program has been continued, with some modifications each year. The objectives of the program are (1) to help student overcome background deficiencies in science, (2) to help students overcome background deficiencies in mathematics, and thus to acquire those mathematical skills which are essential to problem solving in chemistry, (3) to help students who are having difficulty understanding and applying chemical principles, (4) to help students having difficulty with problem solving, and (5) to assist minority students who are experiencing difficulty with chemistry due to language problems. The program seeks to reach students with pre-determined needs, as well as students with less obvious needs, by rendering tutorial assistance to all who voluntarily avail themselves of the opportunity. The Physical Science Tutorial Laboratory and the tutorial instructor's office are located on the second floor of the Physical Science Building.

*The Remedial Writing Program.* Individualized instruction, one-to-one relationships, mini-labs and special classes of ten students or less have characterized the remedial writing program at Cameron University. Small groups of students regularly participate on a voluntary basis in the mini-labs, which are devoted to such subjects as spelling, theme structure and usage problems, but at least one-half of the composition consultant's time is reserved for private conferences with drop-in students. In addition to operating the remedial writing laboratory, which is located in the south wing of Nance-Boyer Hall, the Department of Language Arts offers a formal three credit hour course for beginning students with grammatical deficiencies. The course begins with the recognition of verbs and proceeds through paragraph development.

*The Mathematics Tutorial Laboratory.* Located in Burch Hall, the Mathematics Tutorial Laboratory is available to students who are enrolled in mathematics classes and to students in other classes where mathematics is involved. The lab is staffed by a specialist in mathematics, and is equipped with both scientific and statistical calculators. Students enrolled in the beginning and intermediate Algebra classes meet in the Mathematics Tutorial Laboratory twice each week. Participation by all other students is strictly voluntary, and may be on an irregular, drop-in basis.

## JOB PLACEMENT SERVICES

The Placement Office at Cameron University was established to assist its graduates in obtaining desirable employment. The Placement Office attempts to accomplish this goal by bringing together the employer and employee in interviewing facilities.

In order for the Placement Office to properly perform its functions, confidential files are compiled, maintained, and made available to prospective employers for any Cameron University graduate who requests these services. In addition, the Placement Office serves as a clearing-house for information concerning employment, career opportunities, and vacancies that may be available in the educational, industrial and governmental areas. A registration fee of \$2.00 is assessed for the above services.

## TESTING SERVICES

A comprehensive testing program is provided for all students through the University Testing Center. Tests are available in the areas of aptitude, intelligence, and achievement. Surveys for the measurement of interests, attitude, personal problems, personality, reading, and study skills are also available. Students may schedule tests in the above areas by contacting the University Testing Center.

The Testing Center also provides registration and supervision for the ACT (American College Testing), GRE (Graduate Record Examination), LSAT (Law School Admission Test), and CLEP (College Level Examination Program). The GMAS (Graduate Management Admission Test) and the MCAT (Medical College Admission Test) are also administered.

## FINANCIAL AIDS

The primary purpose of student financial aid at Cameron University is to provide assistance to students who, without such aid, would be unable to attend college. All funds for grants, loans, and scholarships are channeled through the Office of Financial Aids. Policies are formulated by the Financial Aids Committee and administered by the Director of Financial Aids.

## SCHOLARSHIPS

### Academic Scholarships

Each year a limited number of Academic Scholarships are awarded to beginning freshmen students. Scholarships consist of the waiver of tuition for sixteen hours of college work for each semester of the freshman year. Scholarships are awarded on a competitive basis and based upon scholastic ability and financial need.



### Institutional Scholarships

These awards are made available by Cameron University and outside organizations through Cameron, to students who have demonstrated success or high potential in areas of high school or college achievement.

### Departmental Scholarships

Each academic department at Cameron University will have a limited number of scholarships for students who have demonstrated success or high potential in individual studies, athletics, or fine arts.

Applicants should contact the Chairman of the Department in the area in which the scholarship is desired or the Director of Financial Aids, Cameron University, for application.

### Rehabilitation Scholarships

The State Board for Vocational Education, through the Vocational Rehabilitation Division offers payment of tuition and other services to civilian students who have certain physical handicaps, provided the vocational objective selected by the student has been approved by a representative of the Division. Application for Vocational Rehabilitation should be made to the Vocational Rehabilitation Office, Cameron University, P.O. Box 6338, Lawton, Oklahoma 73501.

## WORK OPPORTUNITIES

### Student Employment

Cameron University offers employment to a limited number of students each year in the laboratories, offices, dining halls, residence halls, and maintenance department. While it is impossible to give employment to all students who apply, it is the policy of the school to assist as many of these students as possible, enabling them to contribute toward the cost of their college education.

Numerous citizens of Lawton employ Cameron students on a part-time basis about their homes and businesses. It is possible for most students needing financial assistance to obtain some work either at the university or in the city of Lawton. Every effort is made to find places and systematize the assigning of students' jobs so that the largest possible number of students can be helped.

While some limitations are placed on the total amount that a student may earn a month from the university, the amount to be earned does depend upon the student's class schedule and upon the degree of faithfulness and energy with which he performs his task. Please request student Employment Application blanks from the office of Financial Aids, Cameron University, Lawton, Oklahoma 73501.

### University Work-Study Program

The Work-Study Program was established by the 88th Congress under Title I, part C, of Public Law 88-452, designed as the Economic Opportunity Act of 1964. This program, nationwide in scope, provides money to the university for the employment, on a part-time basis, of worthy full-time students from "low-income" families.

## GRANTS

### Educational Grants

Federal funds are available through Cameron University in form of Educational Grants to help students of exceptional financial need pursue a course of undergraduate study. The student must be enrolled or have been accepted for enrollment on a full-time basis and must show evidence of academic or creative promise and the ability to maintain good standing.

The grants vary from \$200 to \$800 depending on (1) Economic need and (2) Amount of assistance provided from non-Federal grants, scholarships, loans, and student employment.

Application should be made through the Director of Financial Aids, Cameron University, Lawton, Oklahoma 73501.

## LOANS

### National Direct Student Loan Program

Cameron University is a participant in the Student Loan Program. If a financial need is shown, an undergraduate student may borrow up to \$1,000 each academic year, to a total of \$5,000. The repayment period and the interest do not begin until 9 months after the student ends his studies. The loans bear interest at the rate of 3 per cent per year and repayment of principal may be extended over a 10 year period, except that the institution will require a repayment of no less than \$30 per month.

### Guaranteed Bank Loan

Available to Cameron students to help meet their financial needs is the guaranteed loan program. The guaranteed loan program has one purpose: to provide the means for the student to borrow money for college expenses at low interest rates, with the Federal Government paying part of the interest. Any student who is enrolled or accepted for enrollment in a nonprofit college for undergraduate or graduate studies is eligible to apply for a guaranteed loan for educational expenses.

Principal features of the program are:

1. The transaction is made between the student and a participating bank or agency. The student applies for a loan at the bank or agency which is participating in the program, and the lender makes the loan directly to the student.
2. The university certifies that the student is pursuing a full-time course of instruction and has a financial need. The Oklahoma State Regents for Higher Education acts as guarantor for the loan.
3. The Federal Government pays a portion of the interest on behalf of eligible students.

## CAMPUS LIVING FOR STUDENTS

All Cameron University students residing on campus live in the air-conditioned May Shepler Hall. It is a modern ten-story high rise structure. Male and female students live on separate floors, however, all residents share the common lounge and cafeteria area. Food service in the Shepler Center Cafeteria is included in the total for Campus Living. The Cafeteria staff, under the Supervision of the Food Services Director provides students the opportunity for twenty meals a week on a contract basis. A snack bar and game room is also provided within the Complex.

May Shepler Hall is supervised by a professionally trained staff consisting of the Director of the Complex, the Resident Supervisors, and the Resident Assistants. Their responsibilities include the supervision of the Hall, providing counseling and referral services for resident students and providing leadership in the development of educational, cultural, social, and recreational programs for residents. The Supervisors and the Resident Assistants reside in the Complex.

## LIBRARY

The Library Building, a two-story brick, air-conditioned structure, was completed in the spring of 1964. The library has a collection in excess of 134,000 volumes, numerous pamphlets, and bound periodicals. The library subscribes to nearly 1,000 current magazines and newspapers. In accordance with modern library practice, the books are catalogued under the Library of Congress System and arranged on the open shelf plan, which enables students to browse at will and thus become acquainted with the entire collection.

## BOOKSTORE

Textbooks, notebooks, and other supplies needed by the students are available at the bookstore. The bookstore also carries a wide selection of other books, including both fiction and non-fiction.

## POST OFFICE

Cameron postal service includes the sale of stamps, money orders, envelopes, and post cards. Mail is delivered daily, Monday through Saturday. The university postoffice is located in the Student Union.

## HEALTH SERVICES

Full-time Cameron University students may receive emergency care, first aid, and treatment of common minor ailments by reporting to the Emergency Room of Memorial Hospital. Through an agreement between Health Services and the Hospital Board, full-time students may receive such treatment without charge for the Emergency Room or for the nurse's services. The University Physician is available for emergencies and consultation. Medicine, physician's services, diagnostic treatment, etc., are charged to the student. Students are expected to have general medical needs met by their personal physicians, dentists, or clinics.

*Insurance Plan for Students*—A student health insurance plan has been selected and endorsed by the University which provides for the specific needs of the majority of the students.

*R.O.T.C. Medical Eligibility*—Satisfactory completion of a physical examination is required prior to participation in the advanced Military Science Program.

*Emergency Authorization for Medical Treatment*—The University requires the parents of each student to sign an authorization to admit their son or daughter to a hospital in case of an emergency.

## STUDENT ORGANIZATIONS

All regularly enrolled students of Cameron University are members of the student association, which supports selected student enterprises, organizations, and directs student activities. This organization is designed to develop student government, and to bring a working relationship between the university administration, the faculty, and the student body.

Cameron has many student organizations with which the students may affiliate. These organizations provide opportunity to associate with others of similar aspirations and interests along with the guidance of a faculty advisor. These organizations can be both stimulating and rewarding in the student's development during his college years. The student groups are listed in the Student Handbook.

Those who seek further spiritual development and experience may participate in classes in Religious Education and in activities at local churches, where fellowship, leadership, and religious training are provided.

## EXTRA-CURRICULAR ACTIVITIES

*Cultural Events*—Cultural events at Cameron University are varied in order to meet the needs of the student body.

Popular recording artists, music concerts, and drama productions are scheduled regularly on campus. Art displays and other activities are regularly brought to the university.

*Music Groups*—Band and choral activities are open to all students on campus and provide many interesting opportunities.

*Intramural Athletics*—In the extensive intramural program at Cameron University, students have the opportunity to participate in basketball, volleyball, softball, horse shoes, badminton, tennis, pingpong, flag football, and bowling.

*Intercollegiate Athletics*—Cameron University is a member of both the National Association of Intercollegiate Athletics (NAIA) and the National Collegiate Athletic Association (NCAA). Included in the present university program are the sports of football, basketball, baseball, riflery, golf, and track.

## STUDENT ACTIVITY FACILITIES

The Davis Memorial Student Union, completed in 1961, is a modern one-story structure. It contains a lounge area, bookstore, United States Post Office, card playing area, and snack area.

Cameron Stadium, complete in 1965, is a bowl type modern football field, with an artificial turf and with a seating capacity of approximately 10,000. The stadium is complete with concession facilities, press box, dressing rooms, and ample parking.

McCord Field, completed in 1970, is a baseball park complete with concession facilities, press box, and ample parking. It has a seating capacity of approximately 1,000.

The gymnasium, completed in 1957, has a seating capacity of approximately 1,700. The building is complete with dressing facilities, four all-purpose classrooms, coaches' offices, and offices for the physical education department.

All of the athletic facilities are modern and well equipped. The facilities are available for student use and are used regularly for intramural activities. State play-offs for area high schools are regularly held in Cameron facilities. The football stadium is also used by three local high schools for their home games.

## PUBLICATIONS

All official student publications of the university are published under the policies of the Student Publications Committee, a representative board of students, faculty, and administrators.

### The University Newspaper

The *Cameron Collegian*, the official publication of the university, is published weekly by members of the publication staff, with the assistance of the journalism classes. The paper serves the function of reporting news of Cameron University, supporting student and university activities, and providing training in journalism.

### The University Yearbook

The *Wichita*, published once each year or in two parts in the fall and spring, is a permanent record of the activities of the student body, organizations, faculty, and extra-curricular activities during the school year.

## R.O.T.C. (Reserve Office Training Corps)

### Four-Year Program

Cameron University offers courses in basic and advanced Military Science. The basic course, taken during the freshman and sophomore years, is designed to teach principles and techniques of leadership and to develop in each student an understanding of the role of the Army in the defense of the United States. The purpose of the advanced course, taken during the junior and senior years, is to train selected students in a balanced course of officer training, both theoretical and practical, which will qualify them to perform the duties of a commissioned officer in the Army of the United States. Each student who successfully completes the advanced course will, upon receiving his Bachelors Degree, be commissioned as a Second Lieutenant in the United States Army.

While participating in the advanced course, each student is paid \$100 per month for the academic school year, not to exceed 10 months for each of two years, or a total of \$2000. Additionally, during the summer between the junior and senior year, while the student attends the advanced ROTC Summer Camp, he will receive one-half of a second lieutenant's pay, or approximately \$550 for the six-week period.

### Two-Year Program

For those students who were unable, or did not elect, to enroll in the basic course and who desire to pursue a commission, the Army has

developed a two-year program. The requirements of the basic course may be met by attending a six-week ROTC Basic Summer Camp the summer prior to enrollment in the advanced course. From one to three hours of academic credit may be obtained, at student option, by properly enrolling in MS 3003 (Basic Summer Camp) for the summer school term. Veterans who wish to pursue a commission may enter the advanced program by enrolling in MS 3013 with evidence of satisfactory prior service and appropriate academic standing. Further information on the two-year program may be obtained from the Professor of Military Science.

### Scholarship Program

In 1964, Congressional Legislation authorized college scholarships for selected students enrolled in the ROTC program. The scholarships are awarded on a competitive basis to help outstanding young people pay for their college education while completing requirements for a commission in the United States Army. Scholarships are available for one, two, three and four year periods and include the following:

- a. Payment for all tuition, textbooks, fees and other educational expenses for the duration of the scholarship.
- b. Payment of \$100 per month subsistence allowance for the duration of the scholarship.

Further information on the Scholarship program can be obtained through the Financial Aids Office and/or the Professor of Military Science.

### Flight Program

This program provides an opportunity for students enrolled in advanced Military Science to learn to fly at no personal expense. Those students who meet the physical and mental requirements will be allowed to enroll in the Army ROTC flight program and will receive 35 hours of ground school instruction and 36½ hours of in-flight instruction. Successful completion of the course normally results in qualification for a private pilot's license. Further information on the ROTC flight program can be obtained from the Professor of Military Science.

## SPECIAL INFORMATION FOR VETERANS, SERVICE PERSONNEL AND ELIGIBLE DEPENDENTS

Cameron University is fully certified by the Oklahoma State Accrediting Agency to the Veterans Administration (VA) as an approved training institution.

Certain veterans, service personnel, plus eligible dependents or survivors of same may qualify for federally enacted education benefits.

The Office of Veterans Affairs offers assistance and information on available programs, applications for benefits, admissions, enrollments, academic goals, career guidance and special tutorial benefits.

To begin receiving payments for attendance, students must contact the Office of Veterans Affairs and initiate required documents. For beginning students to have their initial benefits check for use at registration, paperwork should be filed with Cameron University Veteran Affairs Officer approximately six to eight weeks prior to enrollment.

To insure accurate, timely benefits, each Cameron student recipient of V.A. education assistance is responsible to the University Veterans Affairs Officer (UVAO) for promptly:

1. Filing tuition payment receipts following each new term of enrollment.
2. Reporting increases and decreases in course loads as they occur.
3. Reporting the cessation of attendance.
4. Reporting changes in previously reported information (address, ending date, future attendance plans, etc.)

In order to continue receiving benefits payments, the Veterans Administration requires that students:

1. Satisfy the University's standards on academic progress (see "retention standard" on page 42)
2. Comply with the University's requirement of regular class attendance (see page 43, class attendance)

V.A. educational benefits are paid on a graduated basis according to course load (full time, three-fourths time, one-half time) and number of dependents.

For regular semester courses of sixteen weeks in length, twelve or more credit hours constitute full time attendance, nine to eleven hours constitute three-fourths time, and six hours constitute half-time. Eligibles taking less than a half-time load and active service personnel will be paid for tuition and fees only. The credit hour load required for accelerated courses (eight to six weeks in length) is full time, six or more hours; three-fourths time, four or five hours; one-half time, three hours.

Students receiving VA educational benefits must present their enrollment receipt for each up-coming period of attendance to the University Veterans Affairs Office in the north wing of Nance-Boyer Hall for enrollment to be considered complete.

The above information is applicable to all Cameron students attending under Chapter 31 (Disabled Veterans Bill), Chapter 34 (regular GI Bill), or Chapter 35 (Dependents Bill) of Title 38 USC.



## SERVICEMEN'S OPPORTUNITY COLLEGE (SOC)

Cameron University is one of the 175 baccalaureate degree-granting institutions throughout the nation which have been designated as Servicemen's Opportunity Colleges. Sponsored by the American Association of State Colleges and Universities, the Servicemen's Opportunity College Project (SOC) represents a new commitment to education for the military. This network of institutions with similar admissions, transfer and residency requirements and policies allows servicemen and women to move from random educational activities into program-completion efforts. It allows maximum coordination of opportunities among institutions.

## EXTENSION STUDY

### GENERAL PROVISIONS

1. A student may enroll for extension study if he has been formally admitted to the University, and otherwise is eligible for attendance. He must be in good standing at schools at which he was previously enrolled, he must have filed required credentials, and he must be specifically qualified to enroll in the particular courses involved.

2. For a person otherwise employed, the maximum amount of extension study which may be completed in a calendar year is twelve semester hours, and in a single semester, six hours.

3. The maximum total amount of extension work applicable on degree requirements or teacher's certificate is one-fourth each of the total work in general education and fields of specialization.

4. In special situations the student may be permitted to pursue extension or residence work with Cameron and another college concurrently, or to enroll in extension work concurrently with residence work at Cameron, but in either instance specific prior arrangement must be made with approval of the Dean of Instruction, and such arrangement must be reported to the Admissions Office.

5. The fee for extension study is \$16.50 per semester hour. If a student withdraws during the first week of class his refund is 80%. If he withdraws during the second week of class the refund is 50%. After the second week of classes there is no refund on extension classes.

Undergraduate extension study is carried on during the scholastic year in southwestern Oklahoma. This type of work is conducted by regular faculty members, and classes are formed in centers where there is sufficient demand.

Application for formation of classes should be forwarded to the University by June 15 for classes to be offered in the fall semester, and by October 15 for classes to be offered in the spring semester.

## SUMMER SESSION

### ADMISSION

Admission to the summer session is on the same basis as during the regular year. Detailed information concerning admission requirements may be obtained from a previous section of this bulletin.

In the event that a student wishes to apply the credit earned during a summer session at Cameron toward a degree to be conferred by some other institution, it will be the responsibility of the student to confer with his or her dean or adviser before coming to Cameron to select courses which supplement or satisfy the requirements of his program.

### OFFERINGS

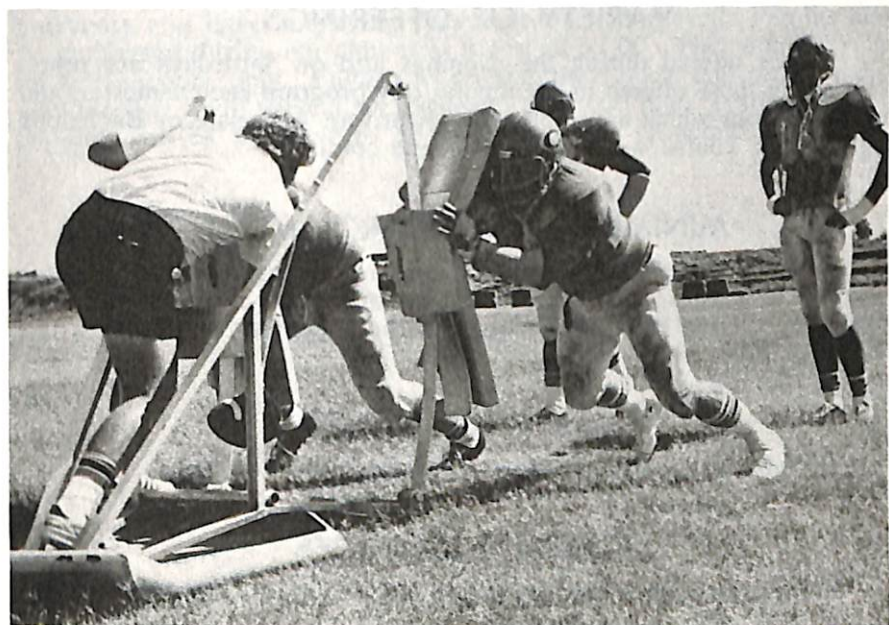
The same standard courses are offered in the summer session as in the regular sessions. Frequency of class sessions is increased for this short period so that the same amount of time in class and in preparation is devoted to the summer term as to the semester. The number and variety of undergraduate courses offered in the summer is somewhat smaller in some departments than during the regular semesters, but adequate offerings are afforded in all departments for ordinary curriculum needs.

### STUDY PROGRAM

The normal undergraduate study program for the summer session is eight or nine semester hours. With the approval of the Dean of Instruction, students who have a superior scholastic record may be permitted to enroll in more than nine hours.



Men working on the pool deck.



## EVENING AND SATURDAY CLASSES

### BACKGROUND

One of the functions of Cameron University as defined by the Oklahoma State Regents for Higher Education is to "provide on-campus programs of adult and continuing education, both for degree credit and non-degree credit". To implement this function, the University has established an extensive program of evening classes and also offers a limited number of Saturday classes.

### TERMS AND TIMES

There are five eight and one-half evening terms per academic year. The Saturday classes and a few of the evening classes are offered on the full seventeen week semester schedule.

Most of the evening classes are for three hours credit and meet from 7:00 to 9:40 p.m. on either Monday and Wednesday or Tuesday and Thursday. Courses for which the student receives four or five hours of credit usually hold longer sessions and/or meet more than twice per week. A majority of the Saturday classes meet from 9:00 to 12:00 a.m. or from 1:00 to 4:00 p.m.

### VARIETY OF OFFERINGS

Classes offered during the evenings and on Saturdays are representative of those offered in the regular day program each semester, and include courses which are applicable toward an Associate or Bachelor's degree. The course work is for resident credit.

### MINIMUM CLASS ENROLLMENT

A minimum enrollment of ten is required to form a class. Persons enrolling in a course that is cancelled because of an insufficient enrollment may transfer to another course without penalty or receive a full refund of fees.

### LATE ENROLLMENT

Persons must enroll prior to the second night of class.

### SCHEDULE CHANGES

Persons may make changes in class schedules, but must do so prior to the third night of classes.

## WITHDRAWALS

It is the students' responsibility to complete an official drop card when withdrawing from a course; otherwise, he could receive an "F" for the course. If withdrawal occurs during the first three weeks of the session, the student will receive a grade of "W". After the first four weeks a grade of "W" will be granted if student has a passing grade or a "WF" if the grade is not passing.

## TEXTBOOKS

Textbooks for evening classes are the same as for day classes and may be purchased from the Cameron Bookstore. The bookstore WILL be open on all enrollment nights.

## FEEES

Fees are \$12.45 per semester hour for 1,000 and 2,000 level courses and \$13.45 for courses of the 3,000 and 4,000 level. If a course fails to materialize all fees will be refunded.

## PARKING REGISTRATION

All motor vehicles parked on campus must be registered with the university and have a Parking Permit properly displayed. Permits may be purchased during enrollment at a cost of \$1.00. The permit is valid for one session, only. Failure to register the vehicle and properly display the decal will subject the owner to a \$10.00 fine. Traffic violation booklets will be available to all students during enrollment.

## SPECIAL ON-CAMPUS CLASSES FOR ON-DUTY MILITARY PERSONNEL

### BACKGROUND

The United States Department of the Army, in the Army Education Services Plan FY75, has set forth significant new objectives and requirements for implementation by Army installations. These objectives include the opportunity for every soldier to participate in special educational programs during on-duty hours.

One of the functions officially assigned to Cameron University is to provide special programs of collegiate instruction suited to the needs of the military personnel at Fort Sill. Accordingly, the University has agreed to assume responsibility for the undergraduate college portion of the Army's new educational program for the military personnel who are on-duty at Fort Sill.

The University conducts four special eight week sessions for on-duty military personnel each year, two of them concurrently with the regular sixteen week fall semester and two during the spring semester. On-duty military personnel may also participate in the University's regular eight week summer term.

With the approval of their unit commanders, interested individual soldiers are released from their regular military duties during either the morning or the afternoon to participate in at least one of these sessions per year. Approximately fifty percent of the eligible applicants for the program are released for morning classes and fifty percent for afternoon classes.

### PARTICIPATION

All assigned and/or attached military, except students and trainees are eligible to participate in the On-Duty Education Program on a voluntary basis. Military dependents and other civilians may also enroll in any or all of the terms. Interested individuals may receive counseling at the Army Education Center, Building 299, Fort Sill.

## ADMISSIONS PROCEDURES

Each individual desiring to enroll will be required to complete and deliver to the Education Center the following forms:

- (1) FS Form 369-R. This form supplies the required enrollment information.
- (2) A release form, signed by the unit commander.
- (3) A financial assistance form, signed by the unit commander, which will either be:
  - (a) DA Form 2171, in which case the Army will pay 75% of the tuition cost, or
  - (b) VA Form 22-1999a, in which case the in-service GI Bill will reimburse the student for one-hundred percent of tuition cost.

The Education Center will then issue all of the necessary admissions forms for Cameron University and further instructions will be given. Actual enrollment will be conducted on campus by Cameron University personnel at a designated time and place. All completed Cameron University forms, the approved financial assistance form and the student's portion of the tuition costs will be required at that time. Enrollment will be limited to those individuals who can provide a high school transcript or satisfactory GED scores.



## ADVANCED STANDING CREDIT BY EXAMINATION

The purpose of the Advanced Standing Examination Program at Cameron University is to provide examinations, in various subject areas, which are designed to measure knowledge acquired prior to formal college study. College credit is granted to those students who take an advanced standing examination and meet or surpass the minimal score established by the academic departments.

The following rules and regulations for the administration of Advanced Standing Exams have been prescribed by the Oklahoma State Regents for Higher Education.

1. Advanced Standing Credit may be awarded up to one-half of the total semester hours required at the lower division level (32 hours); and not more than one-half of the hours required at the upper division level (32 hours).
2. In computing the total amount of credit which may be earned by Advanced Standing, hours taken through correspondence and extension methods shall be considered as having been earned through Advanced Standing mechanism.
3. Advanced Standing Credit may only be awarded in those academic disciplines which are taught at the awarding institution. Advanced standing examinations in foreign language are not allowed in the native tongue of a foreign student, except for courses in language and literature corresponding to Cameron University courses numbered 3000 or above.
4. Advanced Standing Credit awarded to a student must be validated by successful completion of 12 or more semester hours of academic work at the awarding institution before being placed on the student's transcript.
5. The neutral grade of satisfactory (S) will be utilized to designate Advanced Standing Credit. No entry will be made on the student's transcript unless he is successful in passing the examination.
6. Advanced Standing Credit, once recorded and validated at an institution in the Oklahoma State System of Higher Education, is transferrable on the same basis as if the credit had been earned through regular study at the awarding institution.

## STANDARDIZED NATIONAL TESTS

Any person with substantial knowledge of a subject matter, whether gained through high school or other experiences, may receive credit in a particular course through the CLEP testing program. Formal applications for each test must be submitted to the University Testing Center. Cost is: one test, \$20.00; two tests, \$30.00; three, four, or five \$40.00.

Subject CLEP examinations are offered in English Composition, General Psychology, Introduction to Sociology, American Government, General Chemistry, Geology, General Biology, Humanities, Computers and Data Processing, Elementary Computer Programming: Fortran IV, and Microbiology.

## INSTITUTIONALLY PREPARED TESTS

Students desiring to take an advanced standing examination for credit in a subject other than those listed above may submit an application to the chairman of the department offering the course. Institutional charges for administration and recording of locally administered advanced standing examinations shall be at the rate of \$5 per semester-credit-hour. Applications and further information concerning these tests may be obtained from the University Testing Center.

## TEACHER EDUCATION AND CERTIFICATION

The Teacher Education and Certification Programs at Cameron University are accredited by the Oklahoma State Board of Education. This allows approved graduates to be recommended for teaching certificates in the elementary and secondary schools of Oklahoma. Cameron University also holds membership in the American Association of Colleges for Teacher Education.

### TEACHER CERTIFICATION

Students at Cameron University may complete courses of study whereby they may be recommended to the State Department of Education for a Standard Oklahoma Teaching certificate at the elementary secondary, or elementary-secondary level. Students graduating after July 1, 1976, will be required to complete education 3002, The Exceptional child, or its equivalent in order to qualify for any standard Oklahoma Teaching certificate.

#### Elementary

Students majoring in Elementary Education may be recommended for a Standard Oklahoma Elementary Teaching Certificate for grades K-8. The professional education sequence is listed under the catalog section which deals with The Department of Education and Psychology.

#### Secondary

Students attending Cameron University may pursue programs of study whereby they may be recommended for teacher certification at the secondary level, grades 7-12, in the state of Oklahoma. Secondary certification is available to Cameron students majoring in the following areas: Biology, Business, English, Home Economics, Speech, Mathematics, Chemistry, Natural Science, Physics, Social Studies. The student must complete 22 hours in professional education as follows: (1) a course in methods of teaching from the major area and (2) the sequence of courses offered by the Department of Education and Psychology listed below.

2003	Introduction to Teaching .....	3	hours
3323	Psychology of Adolescence .....	3	hours
*3352	Educational Psychology .....	2	hours
**4032	Educational Tests and Measurements .....	2	hours

- \*4232 Audio-Visual Education .....2 hours  
 \*4128 Directed Observation and Student  
 Teaching in High School .....8 hours

\*Should be taken in the professional semester.

\*\*Not required of Home Economics or English majors.

### Elementary-Secondary

Teacher certification for students majoring in Art, Music, or Health and Physical Education permits them to teach at both the elementary and the secondary level. In addition to the course(s) in methods of teaching in the major field (see section concerning major), the following sequence of professional education courses is required:

- 2003 Introduction to Teaching .....3 hours  
 \*\*3323 Psychology of Adolescence .....3 hours  
 \*3352 Educational Psychology .....2 hours  
 \*\*\*4032 Educational Tests and  
 Measurements .....2 hours  
 \*4232 Audio-Visual Education .....2 hours  
 \*4114 Directed Observation and Student  
 Teaching in the Elementary School ..4 hours  
 \*4124 Directed Observation and Student  
 Teaching in the Secondary School ....4 hours

\*Should be taken in the professional semester.

\*\*Students majoring in Art or Health and Physical Education may elect 3343 Psychology of Childhood.

\*\*\*Not required of Art, Music or Health and Physical Education Majors.

### ADMISSION TO TEACHER EDUCATION

Students planning to enter teacher education programs are required to file formal applications with the Director of Teacher Education for admission to such study. Students admitted to the programs are provided guidance in selection of objectives and are subject to progressive evaluation as they proceed in their work.

A student should enroll in the first professional education course, Introduction to Teaching, *during the sophomore year*. Application for admission to the Teacher Education Program is generally made while enrolled in this course. Earlier enrollment requires permission from the Director of Teacher Education.

The *Teacher Education Council*, an advisory committee of students, faculty, and administrators, serves Cameron University in policy review and development relating to the education of teachers. The professional members of this Teacher Education Council are the admin-

istrators who have direct responsibility for the direction of the pre-service experiences of elementary and secondary teachers and elected faculty members from the various academic departments offering approved programs in Teacher Education.

The following data are used in considering an application for admission to the program:

1. Records of college entrance tests, (ACT or SAT), records of academic achievement in high school and college, the SCAT administered during the sophomore year, and other standardized tests, if needed.
2. Reports on character and qualifications obtained from the Office of the Dean of Students, and from a minimum of three (3) faculty members who are acquainted with the student through classwork.
3. Each applicant must have the approval of his Introduction to Teaching instructor.
4. English Proficiency as shown by a C or higher in English 1113 and English 1213 or their equivalent.
5. Records concerning physical handicaps, general health factors, and communication problems should indicate that the applicant is capable of teaching effectively.
6. Reports of a conference which the student may have with a subcommittee (the Selection, Admission, and Retention Committee) of the Teacher Education Council. This conference may be at the request of the student or the Director of Teacher Education.
7. A minimum cumulative grade point average of at least a 2.0 on a 4.0 scale at the time of admission to the Teacher Education Program. (Note the requirement of a 2.2 for student teaching.)

The application for Teacher Education is then placed in one of the following classifications: Approved, Deferred, or Not Approved.

*Approved*—requirements include a 2.0 grade point average, including all college work attempted, and a satisfactory rating on the evaluation procedures described in 1 through 7.

*Deferred*—the application may be deferred pending completion of any of the requirements.

*Not Approved*—the applicant may receive this status because of failure to meet any of the requirements.

**Retention in the Teacher Education Program**

1. The student must maintain Approved status. Refer to data used for admission to teacher education.
2. Students with Approved status not enrolling in the program for two consecutive semesters may be removed from Approved status.

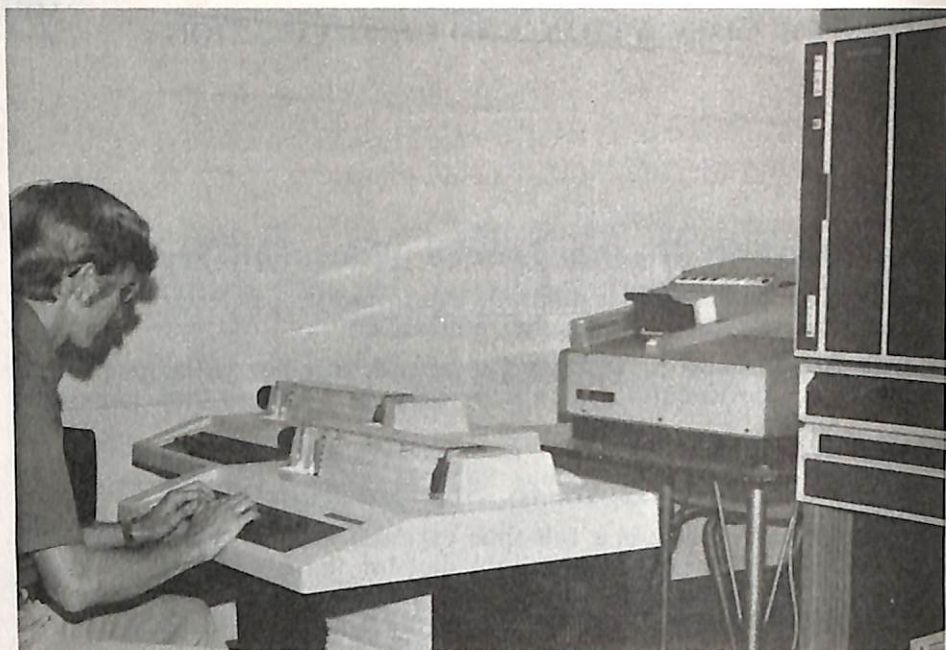
**Admission to Student Teaching**

Student teaching is a full-time experience. The student is expected to work all hours of each school day for the entire student teaching experience. The student should not enroll in other classes or make any arrangements that will interfere with full-time student teaching.

1. Applications should be made to the Coordinator of Student Teaching before the last Friday in March or October, one year prior to the semester the student plans to enroll in student teaching.
2. Admission to student teaching requires a 2.2 grade point average.
3. The student must have maintained *Approved* status.
4. The student must have approval of his major department. (Requirements are determined by the department.)
5. Admission to student teaching is a formal step in the admission and retention program for teacher education. For admission to student teaching, students must furnish evidence that degree requirements will be completed the semester in which they are enrolled in student teaching or the full semester following student teaching.

**TRANSFER STUDENTS**

1. Verification of admission to an approved Teacher Education program at a previous college may be acceptable.
2. Applications for admission to the Teacher Education program may be secured from the office of the Department of Education and Psychology.
3. Applications will be evaluated on the same basis as those of non-transfer students utilizing data provided by the previous college.
4. Students must complete one semester of 2.0 or above work at Cameron University.
5. Applications for admission to the Student Teaching Program may be obtained from the office of the Coordinator of Student Teaching.



Working on a computer terminal in the computer room.



Working in the laboratory.

## DEGREES AND PROGRAMS OFFERED

## THE CURRICULA

The degree programs are not composed wholly of prescribed study. Provision is made at both lower and upper levels for election by the student of a portion of his work. This affords opportunity for certain exploratory contacts in the early years, and a reasonable amount of continued study in fields of particular interest later in the program without any fixed relationship to curriculum prescriptions.

Curricula are in process of continuous evaluation by the faculty. Through the years objectives must be redefined and modified, and procedures redesigned. Changing social and professional needs must be recognized and dealt with through the medium of the programs of study.

## BACHELORS DEGREE PROGRAMS

Cameron University offers a four-year curricula in arts and sciences leading to the degrees of Bachelor of Arts and Bachelor of Science. A student may earn a Bachelor of Arts degree with a major in one of the following areas:

Art

English

History

Mathematics

Mathematics (following an Associate in Science degree in Data Processing or Electronics)

Music (with instrumental, piano, or vocal concentration)

Sociology

Speech-Drama

A student may earn a Bachelor of Science degree with a major in one of the following areas:

Accounting

Agriculture (with Animal Science or Agronomy concentration)

Biology (with Zoology or Botany concentration)

Business Administration

Home Economics

Medical Technology

Natural Science

Physics

Technology

Chemistry

Elementary Education

General Education (for Military personnel only)

Health and Physical Education



Cameron University offers a program whereby a student may complete the requirements in professional education leading to an Oklahoma elementary, secondary, or elementary-secondary teaching certificate. Teacher certification may be earned in conjunction with each major listed above with the exceptions of Agriculture, General Education for military personnel, Medical Technology, Sociology and Technology. Students seeking teacher certification must be formally admitted to the teacher education program. (For information concerning admission to teacher education see page 75.)

### DOUBLE MAJORS

Students may have more than one major listed on their transcript, provided that they complete all of the requirements for each of the majors.

The student seeking two majors must designate one of the majors as the "first major." The degree awarded, B.A. or B.S., will then be determined by the designated "first major."

Students fulfilling all of the requirements of a "second major" are not required to complete a minor.

### DUPLICATE USE OF COURSES

Credits earned in a particular course may not be used to fulfill the requirements of two different majors or of both a major and a minor. Should the same course be required in each of a student's majors or in both his major and minor, the student will be expected to complete an additional elective course in the field in which the duplication occurs.

### REQUIREMENTS FOR GRADUATION

The individual who enters Cameron may graduate under the curriculum required by that catalog or, under any other single catalog which is in effect while he is in attendance at the university.

To secure a Bachelors degree from Cameron the candidate must complete the following general degree requirements:

1. Completion of a major and a minor or a major-minor, and fifty hours of general education is required for all Bachelors degree candidates.
2. The minimum credit total required for a Bachelors degree is 128 semester hours with at least twice as many grade points as total hours attempted whether passed or failed. In cases involving work done at more than one college the above grade average must be attained at Cameron as well as in total combined college work.

In determining graduation requirements, only the last course grade earned in a course attempted more than once will be utilized in calculating the graduation grade points (in calculating grade point averages for all purposes other than graduation, the total number of grade points earned is divided by the total number of hours attempted.)

3. At least three-fourths of work required for graduation must be done in residence (on the campus) at approved institutions. In the education curriculum, because of certification requirements, the residence requirement is applied separately to work in general education, professional teacher education, and the field of specialization (major).

4. Completion of a minimum of 30 hours in residence at Cameron is required on all Bachelor Degree Programs except the B.S. in General Education which requires at least 24 hours in residence.

5. Fifteen of the last 30 hours on the degree program must be done in residence at Cameron. When necessary, the remaining hours may be completed at other baccalaureate degree-granting institutions. Credits earned at a junior college can not be used to fulfill any of the last sixty-four required hours on any bachelors degree.

6. At least forty hours must be done in junior and senior level courses.

7. A student may receive a second degree upon completion of thirty hours in addition to the hours required for the first degree, provided the requirements for the degree are met. Normally, no more than one degree will be conferred at one convocation.

8. Candidates must file for the degree at the Admissions Office at the beginning of the semester or term preceding graduation.

9. All degree candidates are expected to participate in the formal commencement exercises. No degree will be conferred upon any student in absentia unless the absence has been approved in advance by the Dean of Instruction. Such exemptions must be applied for in writing.

## GRADUATION UNDER A PARTICULAR CATALOG

Students may graduate under the degree provisions of the catalog in effect at the time of their first completed semester at Cameron or under any other catalog which may be issued prior to their receipt of a degree. However, every category of requirements in the particular catalog selected must be fulfilled. No student will, for example, be permitted to follow the prescribed guidelines of one catalog in general education and the stipulated major or minor requirements of another catalog.

## RECOGNITION OF HONOR GRADUATES

Graduating baccalaureate and associate degree candidates with superior academic records are accorded special recognition by the University. Students who have achieved an over-all grade point average of 3.8 or above for all college-level courses attempted are graduates "with high honors" and those who have achieved an over-all grade point average of at least 3.6 but less than 3.8 for all college-level courses attempted are graduated "with honors". Both categories of honors graduates are identified as such on their official Cameron University transcripts, and they are also formally recognized in the commencement exercises for their graduating class.

## GENERAL EDUCATION REQUIREMENTS FOR THE BACHELORS DEGREE

Fifty hours of general education as outlined below are required of each person who receives a Bachelors Degree from Cameron University. Its purpose is to acquaint the student with the major areas of knowledge and experience which are generally recognized as the common possession of educated persons, so that his understanding and appreciation of his cultural heritage will enrich his personal and community life and serve as a basis for vocational success and good citizenship.

### MINIMUM 50 HOURS

- |  |                   |
|--|-------------------|
| <b>1. Communications</b> .....   | <b>9 hours</b>    |
| (a) English 1113, English Composition I .....  | 3 hours           |
| (b) English 1213, English Composition II .....   | 3 hours           |
| (c) Speech 1113, Fundamentals of Speech .....  | 3 hours           |
| <b>2. Mathematics</b> .....  | <b>3 hours</b>    |
| Selected from any Mathematics course numbered 1013 or above except courses designed for elementary education majors. |                   |
| <b>3. Science</b> .....  | <b>8-10 hours</b> |
| (a) Biological Science—a 4 hour or 5 hour Biology, Botany or Zoology course, and                                     |                   |
| (b) Physical Science—a 4 hour or 5 hour Physical Science, Chemistry, Geology, or Physics course.                     |                   |
| <b>4. American History and Political Science</b> .....   | <b>6 hours</b>    |
| (a) History 1483 or 1493 .....   | 3 hours           |
| (b) Political Science 1113, 3023 or 3113 .....   | 3 hours           |
| <b>5. Humanities</b> .....   | <b>6-8 hours</b>  |
| To be selected from the following, with no more than two courses from any one group (a-h)                            |                   |
| (a) Art 2112, 2313, 2323   |                   |
| (b) Drama 2212   |                   |
| (c) English 2543, 2653, 2713, 2723, 2773, 2883   |                   |
| (d) Foreign Language (French, German, or Spanish) 1113, 1223 or equivalent   |                   |
| (e) General Humanities 2114, 2224  |                   |
| (f) History 1113, 1123, 2473   |                   |
| (g) Music 1212, 1222, 2012, 2022   |                   |
| (h) Philosophy 1113, 2213  |                   |

6. Behavioral Science ----- 3 hours  
 Home Economics 1123, Psychology 1113, or Sociology 1113 ✓
7. Economics ----- 3 hours  
 Economics, 2013, Geography 3023, or Home Economics 3603 ✓
8. Physical Education Activity\* ----- 4 hours  
 (a) Any physical education activity course(s)  
 (b) Marching band (not to exceed 2 courses)  
 (c) Intramural sports (not to exceed 2 courses)  
 (d) Intercollegiate Athletics (not to exceed 1 course)  
 (e) Any four enrollments in Military Science courses having leadership laboratories.

9. Electives sufficient to total 50 semester hours or more

but with no more than six hours of these electives in any one academic department. (Agriculture, Art, Biology, Business, Education & Psychology, Health & Physical Education, Home Economics, Language Arts, Mathematics, Military Science, Music, Nursing, Physical Science, Social Science, Speech-Drama, Technology.)

\*Not required if student is

- (a) 30 years of age or older, or  
 (b) recommended by a medical doctor for waiver of the requirement, or  
 (c) awarded credit based on one year of active full-time military service.

## SPECIFIC REQUIREMENTS FOR THE BACHELOR'S DEGREE

On the following pages the specific requirements for major programs in the various areas of study are listed.

### DEPARTMENT OF AGRICULTURE

The Department of Agriculture offers a program leading to a Bachelor of Science Degree with a major in agriculture. The students majoring in Agriculture will be required to choose a concentration in animal science or agronomy.

I. GENERAL EDUCATION (See page 83) .....	50 hours
II. MAJOR FIELD .....	37 hours
<i>Required Courses</i> .....	17-18 hours
1124 Introduction to Plant Science .....	4 hours
1214 Introduction to Plant Science .....	4 hours
1334 Introduction to Agriculture	
Economics .....	4 hours
2124 Fundamentals of Soil Science .....	4 hours
4571-2 Senior Seminar in Agriculture .....	1-2 hours
<i>Required Area of Concentration</i> .....	14 hours
Select Group A or Group B	

### GROUP A

#### Animal Science

3101 Livestock Evaluation .....	1 hour
3111 Livestock Evaluation .....	1 hour
3133 Breeds of Livestock .....	3 hours
3653 Applied Nutrition .....	3 hours
4114 Livestock Production and Management .....	4 hours
4434 Animal Reproduction .....	4 hours

## GROUP B

## Agronomy

3012 Identification, Grading and Analysis of Field Crops .....	2 hours
3214 Forage, Range and Pasture Crops .....	4 hours
3683 Physical Properties of the Soil .....	3 hours
4124 Pesticides .....	4 hours
4233 Soil Fertility and Management .....	3 hours
4674 Grain Crops .....	4 hours
<i>Selected Electives</i> .....	5-6 hours
(must be approved by advisor)	

III. MINOR (See page 117) ..... 18 hours

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

Make selections that will meet the requirements for 40 hours of Junior and Senior courses.

## DEPARTMENT OF ART

The Department of Art offers a program leading to a Bachelor of Arts Degree with a Major-Minor in Art. The program includes courses for students with no art experience as well as courses for students wishing to concentrate their efforts in a specific area.

I. GENERAL EDUCATION (See page 83) .....	50 hours
II. MAJOR-MINOR FIELD .....	54 hours
<i>Required Courses</i> .....	31 hours
1223 Fundamentals of Art .....	3 hours
1023 Perception .....	3 hours
1243 Beginning Painting .....	3 hours
1413 Beginning Sculpture .....	3 hours
2133 Design .....	3 hours
2123 Color .....	3 hours
2033 Figure Drawing I .....	3 hours
2313 History of Art, Prehistoric to the Renaissance .....	3 hours
2323 History of Art, Renaissance to the Present .....	3 hours
4333 History of American Art OR .....	3 hours
4343 History of Contemporary Art .....	
4001 Senior Exhibition .....	1 hour
<i>Upper Division Art Electives</i> .....	23 hours
III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION	

Those students who wish to qualify for a standard teaching certificate in Art in the State of Oklahoma must take 4773 Public School Art and the professional education requirements listed on page 74.



## DEPARTMENT OF BIOLOGICAL SCIENCE

The Department of Biological Science offers programs leading to:

- (a) Bachelor of Science degree with a major in Biology. Students must concentrate in either Botany or Zoology.
- (b) Bachelor of Science degree with a major in Medical Technology.

- I. GENERAL EDUCATION (See page 83) .....50 hours  
(Chemistry 1314 and Physics 1115 are required for students planning to teach.)\*
- II. MAJOR FIELD .....36 hours
- Required Courses:*
- |   |          |
|---|----------|
| 1114 General Botany I .....                     | 4 hours  |
| 1114 General Zoology .....                      | 4 hours  |
| 2003 Genetics .....                             | 3 hours  |
| 2001 Genetics Laboratory .....                  | 1 hour   |
| 3064 General Ecology OR<br>4094 Limnology ..... | 4 hours  |
| <i>Electives</i> .....                          | 20 hours |
- Botany or Zoology 12 hours in concentration, 8 hours in other area
- III. MINOR FIELD (See page 117) .....18 hours  
(*To be selected from Mathematics, Chemistry, or Physics*)
- IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

Those biology majors who wish to qualify for a standard teaching certificate in Science in the state of Oklahoma must take 4772 Teaching of Biology and the professional education requirements listed on page 74.

## MEDICAL TECHNOLOGY

The Department of Biology offers a program whereby a person may be granted a Bachelor of Science Degree with a major in Medical Technology. The program consists of three academic years of course work at Cameron (listed below) and a year of work under the direction of hospital personnel at Comanche County Memorial Hospital or another school of medical technology approved by the Board of Schools, American Society of Clinical Pathologists.\*

- I. GENERAL EDUCATION (See page 83) .....50 hours  
(Must include 1314 General Chemistry, 1114 General Botany and 1513 Mathematics)
- II. MAJOR FIELD .....62 hours
- A. Biology .....16 hours  
1114 General Zoology  
1124 Human Anatomy and Physiology, or 2024  
Comparative Anatomy, or 4004 Physiology  
2124 Microbiology or 2034 Bacteriology  
Approved Electives
- B. Chemistry .....16 hours  
1414 General Chemistry  
2112 Theory of Chemical Analysis  
2223 Quantitative Analysis  
3345 Organic Chemistry  
Approved Electives
- C. Medical Technology (completed at school of  
Medical Technology) .....30 hours
- III. APPROVED ELECTIVES .....16 hours  
(Electives must be selected and approved from advanced Biology courses, advanced Chemistry courses, Physics or Mathematics courses)
- IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

\*Since the number of student openings in the schools of medical technology are limited, and because these schools show preference for individuals who have completed a baccalaureate degree, students who can are strongly advised to complete a Bachelor of Science degree with a major in Biology, Chemistry or Natural Science.

## DEPARTMENT OF BUSINESS

The Department of Business offers programs leading to:

- (a) Bachelor of Science degree with a major in Business Administration.
- (b) Bachelor of Science degree with a major in Accounting.

## BUSINESS ADMINISTRATION

- I. GENERAL EDUCATION (See page 83) ..... 50 hours  
Students who major in Business Administration are encouraged to select their elective hours in general education from courses outside the Department of Business.
- II. CORE COURSES .....33 hours
  - 1013 Introduction to Data Processing .....3 hours
  - 2013 Principles of Accounting I .....3 hours
  - 2023 Principles of Accounting II .....3 hours
  - 2023 Principles of Economics II .....3 hours
  - 2113 Business Communications .....3 hours
  - 3013 Principles of Management .....3 hours
  - 3213 Business Law I .....3 hours
  - 3413 Principles of Marketing .....3 hours
  - 3603 Principles of Finance .....3 hours
  - 3613 Quantitative Analysis I .....3 hours
  - 4633 Business Policy .....3 hours
- III. AREA OF SPECIALIZATION .....21 hours  
Individuals who major in Business Administration must complete one of the following controlled areas of Specialization (minors).
  - A. General Business Administration .....21 hours
    - 3013 Intermediate Accounting I .....3 hours
    - 3513 Personnel Management .....3 hours
    - Upper-Division Business Department Electives .....15 hours

Chosen from any Business Department courses, except for those courses prefixed Shorthand, Typewriting, and Office Administration, with no more than six (6) hours from any one area.

- B. Economics .....21 hours  
 3013 Micro Economic Theory .....3 hours  
 3023 Macro Economic Theory .....3 hours  
 Upper-Division Economics .....6 hours  
 Upper-Division Electives .....9 hours  
 Chosen from any Psychology, Mathematics, Social Science, Technology, and/or Business Department courses, except for those courses prefixed Shorthand, Typewriting, and Office Administration.
- C. Management .....21 hours  
 3613 Production Management .....3 hours  
 3433 Labor Problems .....3 hours  
 3513 Personnel Management .....3 hours  
 Upper-Division Management .....6 hours  
 Upper-Division Electives .....6 hours  
 Chosen from any Business Department courses, except for those courses prefixed Shorthand, Typewriting, and Office Administration.
- D. Finance .....21 hours  
 2643 Insurance *or*  
     2813 Fundamentals of Real Estate .....3 hours  
 3623 Investments .....3 hours  
 3313 Money and Banking .....3 hours  
 4333 Financial Analysis .....3 hours  
 Upper-Division Electives .....9 hours  
 Chosen from any Mathematics and/or Business Department courses, except for those courses prefixed Shorthand, Typewriting, and Office Administration.
- E. Marketing .....21 hours  
 3013 Micro Economics *OR*  
     3023 Macro Economics .....3 hours  
 3533 Sales Management .....3 hours  
 3433 Retail Management .....3 hours  
 4433 Advertising .....3 hours  
 Upper-Division Electives .....9 hours  
 Chosen from any Business Department courses, except for those courses prefixed Shorthand, Typewriting, and Office Administration.
- F. Office Administration .....21 hours  
 1213 Business Computations .....3 hours  
 3003 Advanced Typewriting .....3 hours  
 3013 Office Procedures .....3 hours  
 3123 Office Management .....3 hours  
 Electives .....9 hours  
 Chosen from Shorthand 2112 or above and/or from any upper-division Business Department Courses.

## IV. Related Subjects for Teacher Education (Optional)

The department of Business offers work leading toward two different standard business teaching certificates. They are referred to as the Business Education Certificate and the Bookkeeping-Clerical Practice Certificate. The program of studies for those students desiring teacher certification in the State of Oklahoma must include Business 4772, Methods of Teaching Business Subjects, the professional education sequence listed on page 74, and one of the following groups.

<i>Business Education</i>		<i>Bookkeeping-Clerical Practice</i>	
*Shorthand	12 hours	*Typewriting	9 hours
*Typewriting	9 hours	Office Administration	
Office Administration		3013 or 3123	3 hours
3013 or 3123	3 hours		

\*Three hours of typewriting and/or shorthand may be omitted for each unit completed in high school, except that one course in each subject must be completed in college.

## V. Electives to Complete 128 Hours Required for Graduation.

## ACCOUNTING

## I. GENERAL EDUCATION (See page 83) .....50 hours

Students who major in Accounting are encouraged to select their elective hours in general education from courses outside the Department of Business.

## II. CORE COURSES .....33 hours

1013 Introduction to Data Processing	3 hours
2013 Principles of Accounting I	3 hours
2023 Principles of Accounting II	3 hours
2023 Principles of Economics II	3 hours
2113 Business Communications	3 hours
3013 Principles of Management	3 hours
3213 Business Law I	3 hours
3413 Principles of Marketing	3 hours
3603 Principles of Finance	3 hours
3613 Quantitative Analysis I	3 hours
4633 Business Policy	3 hours

## III. MAJOR FIELD .....24 hours

4213 Auditing	3 hours
Upper-Division Accounting Electives	21 hours

## IV. MINOR

Students who major in Accounting and complete the core requirements are not required to complete a minor.

## V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION.

## DEPARTMENT OF EDUCATION AND PSYCHOLOGY

The Department of Education and Psychology offers programs leading to the Bachelor of Science Degree with a major in Elementary Education and to Teacher Certification in Elementary, Elementary-Secondary and Secondary Education.

## Elementary Education

- I. GENERAL EDUCATION (See page 83) .....50 hours  
(Must include 1113 General Psychology)
- II. SPECIALIZED EDUCATION—Major .....32 hours

*Required Courses* .....27 hours

3132 Music for Elementary

Teachers I .....2 hours

3143 Methods and Materials of Elementary

Language Arts .....3 hours

3153 Reading Instruction I .....3 hours

3253 Reading Instruction II .....3 hours

3162 Methods and Materials of Elementary

Arithmetic  
(Prerequisite: Math 3353) .....2 hours

3172 Methods and Materials of Elementary

Natural Science .....2 hours

\*3182 Methods and Materials of  
Elementary Social Science .....2 hours

3352 Physical Education in the  
Elementary School .....2 hours

3353 Math for Elementary  
Teachers I .....3 hours

4123 Library Science—  
Children's Literature .....3 hours

4232 Art for Elementary Teachers .....2 hours

*Elective Courses* (minimum) 5 hours

2212 Physical Education—First Aid .....2 hours

2053 Home Economics—  
Child Development .....3 hours

3142 Music for Elementary  
Teachers II .....2 hours

\*Should be taken in the professional semester.

3363 Math for Elementary Teachers II .....	3 hours
3413 Speech Development and Correction .....	3 hours
4153 Diagnosis and Remediation of Reading Difficulties .....	3 hours
Art, Drama, Music (Courses in these fields other than methods courses) .....	1-3 hours

### III. CERTIFICATION REQUIREMENTS .....8 hours

1223 Fundamentals of Art .....	3 hours
2243 Human Geography .....	3 hours
3002 The Exceptional Child .....	2 hours

### IV. AREA OF CONCENTRATION—Minor .....18 hours

*An approved program must be chosen from one of the following:*

1. Language Arts: English and/or Speech and/or Journalism
2. Social Studies
3. Mathematics
4. Science
5. Fine Arts: Art or Drama or Music
6. Health and Physical Education
7. Foreign Language
8. Reading

A maximum of nine hours of work taken to fulfill other requirements may be applied to areas 1-7. Methods courses in Elementary Education may not be applied to areas 1-7. Requirements for area 8 (Reading) are: Educ. 3143, 3153, 3253, 4153, and Lib. Sci. 4123; plus 3 hrs. from: Lib. Sci. 3113, Lib. Sci. 4313, Eng. 4613.

### V. PROFESSIONAL EDUCATION .....22 hours

2003 Introduction to Teaching .....	3 hours
3012 History and Philosophy of Education .....	2 hours
3343 Psychology of Childhood .....	3 hours
*3352 Educational Psychology .....	2 hours
*4032 Educational Tests and Measurements .....	2 hours
*4118 Directed Observation and Student Teaching in the Elementary Grades .....	8 hours
*4232 Audio-Visual Education .....	2 hours

### VI. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

\*Should be taken in the professional semester.

## DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

The Department of Health and Physical Education offers a program leading to:

- (a) A Bachelor of Science Degree with a major in Health and Physical Education
- (b) A teaching certificate in Driver and Safety Education.

I. GENERAL EDUCATION (See page 83) .....	50 hours
II. MAJOR FIELD .....	37 hours*
<i>Required Courses</i> .....	29 hours

A. Health .....10 hours

1052 Personal and Community Health .....2 hours

2212 First Aid .....2 hours

3012 Individual Correctives .....2 hours

3244 Applied Anatomy and Kinesiology ....4 hours

B. Health and Physical Education Theory .....11 hours

2322 Introduction to Health, Physical  
Education and Recreation .....2 hours

3332 Physical Examination and  
Measurements .....2 hours

3352 Physical Education in the  
Elementary School .....2 hours

3362 Physical Education in the Junior  
and Senior High School .....2 hours

4003 Organization and Administration of  
Health, Physical Education and  
Interscholastic Athletics .....3 hours

C. Physical Education Activity .....8 hours

Swimming .....1 hour

Tumbling and Gymnastics .....1 hour

Additional elective activity courses .....6 hours  
(excluding Athletics and Intramurals)

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\*A minimum cumulative grade point average of 2.5 in requirements of the major field.



D. Elective Health and Physical Education Courses .....	8 hours
Physical Education Activity .....	2 hours
2281 Instructor's Course in First Aid .....	1 hour
3051 Officiating Women's Sports .....	1 hour
3052 Sports Officiating .....	2 hours
3293 Care of Athletic Injuries .....	2 hours
3863 Community and Recreational Leadership .....	3 hours
4222 Organization and Management of Intramurals .....	2 hours
4232 Principles and History of Health and Physical Education .....	2 hours
4781-4 Special Studies .....	1-4 hours
Theory of Coaching (Not to exceed one course) .....	2 hours

III. MINOR FIELD (See page 117) .....18 hours

#### IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

Those students who wish to qualify for a standard teaching certificate in Health and Physical Education in the State of Oklahoma must take 4772 Methods of Teaching Physical Education, and the professional education sequence listed on page 74.

NOTE: Intramural Sports: *Maximum credit two hours toward general education requirement; four elective hours toward total 128 hours requirement.*

Participation in Intercollegiate Sports: *Maximum credit one hour toward General Education and eight elective hours toward 128 hour requirement.*

## DRIVER AND SAFETY EDUCATION CERTIFICATE

Persons wishing to complete requirements for the standard certificate in Driver and Safety Education must hold a standard elementary-secondary or standard secondary school certificate in another certificate field. They must also possess a valid Oklahoma drivers license. Persons who successfully complete all the requirements for the standard Driver and Safety Education Certificate will thereby satisfy the college requirement for a subject minor.

I. STANDARD CERTIFICATE .....	21 hours
A. <i>Required Courses</i> .....	9 hours
3723 Safety Education .....	3 hours
3823 Driver and Traffic Safety I .....	3 hours
4923 Driver and Traffic Safety II .....	3 hours
B. <i>Electives</i> .....	12 hours
1. <i>Related Courses</i> .....	6-9 hours
2053 Police Traffic Functions	
(Law Enforcement) .....	3 hours
4781 Special Studies .....	1-4 hours
4933 Driver and Traffic Education .....	3 hours
Organization and Administration	
of Drivers Education .....	3 hours
Approved Courses, Workshops, or Seminars in	
Driver and Traffic Safety Education .....	2-4 hours
2. <i>Related Fields</i> .....	3-6 hours
2212 First Aid (Physical Education) .....	2 hours
3223 Principles of Public Relations	
(Journalism) .....	3 hours
4232 Audio-Visual Education (Education) .....	2 hours
Approved Workshops or Seminars in	
Civil Defense .....	1-2 hours
Approved Workshops or Seminars in Alcohol	
and Drug Education .....	1-2 hours

## DEPARTMENT OF HOME ECONOMICS

The Department of Home Economics offers a program leading to a Bachelor of Science degree with a major in Home Economics. This program is designed to meet the needs of Home Economics related career personnel and/or non-degree enrollees.

I. GENERAL EDUCATION (See page 83) .....	50 hours
II. MAJOR FIELD .....	36 hours
<i>Required Courses</i> .....	27 hours
1123 Family Relations .....	3 hours
1233 Clothing Selection and Construction Techniques .....	3 hours
1313 Food Principles .....	3 hours
2213 Textiles .....	3 hours
3153 Observation and Practice in the Child Development Laboratory .....	3 hours
3313 Advanced Nutrition .....	3 hours
3423 Household Equipment .....	3 hours
3593 Housing and Interior Design .....	3 hours
3603 Consumer Education and Money Management .....	3 hours
<i>Electives</i> .....	9 hours
3233 Problems in Clothing Construction OR	
4233 Costume Design .....	3 hours
3343 Meal Management OR	
4313 Quantity Foods .....	3 hours
4123 Marriage OR 4881-4 Individual Study in Home Economics .....	3 hours
III. MINOR FIELD (See page 117) .....	18 hours
IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION	

Those students who wish to qualify for a teaching certificate in Home Economics in the State of Oklahoma must take 4773 Teaching Career Home Economics in the Secondary Schools and the professional education requirements listed on page 74.

## DEPARTMENT OF LANGUAGE ARTS

The Department of Language Arts offers programs leading to a Bachelor of Arts degree with a major in English.

## English

I. GENERAL EDUCATION (See page 83) .....	50 hours
II. MAJOR FIELD .....	42 hours

*Required Courses* .....27 hours

2543 English Literature I .....	3 hours
2653 English Literature II .....	3 hours
2713 World Literature I .....	3 hours
2723 World Literature II .....	3 hours
2773 American Literature I .....	3 hours
2883 American Literature II .....	3 hours
3113 Shakespeare .....	3 hours
3303 Advanced Composition .....	3 hours
4613 English Grammar and Linguistics .....	3 hours

*Electives* .....15 hours

Elective hours are to be selected from English courses numbered 3000 or above.

III. RELATED SUBJECTS FOR TEACHER CERTIFICATION .....	8 hours
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Students who plan to teach must take Library Science 4313 and 5 additional hours in any combination from the related fields of library science, speech, dramatics, and/or journalism.

IV. MINOR (See page 117) .....	18 hours
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V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION	
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Those students who wish to qualify for a standard teaching certificate in Language Arts in the State of Oklahoma must take 4773 Teaching of English and the professional education requirements listed on page 74.

The prospective high school teacher with this major qualifies for the Oklahoma Standard Teaching Certificate in Language Arts, and may teach all English courses offered. (A minimum of 6 hours in each subject is required to teach speech, journalism, or library science).

## DEPARTMENT OF MATHEMATICS

The Department of Mathematics offers a program leading to a Bachelor of Arts degree with a major in Mathematics. Also a major in Mathematics may be obtained following an Associate Degree awarded either in Data Processing or in Electronics.

I. GENERAL EDUCATION (See page 83) .....	50 hours
II. MAJOR FIELD .....	Minimum of 34 hours
<i>Required Courses</i> .....	15-16 hours
*1715 College Algebra and Trigonometry .....	5 hours
**1513 College Algebra .....	3 hours
**1613 Trigonometry .....	3 hours
2215 Analysis I or Math 2003 and Math 2013 .....	5-6 hours
2113 Introduction to Modern Abstract Algebra .....	3 hours
2234 Analysis II or Math 2023 .....	3-4 hours
2244 Analysis III or Math 2033 .....	3-4 hours
<i>Electives</i> .....	18-19 hours
(Students seeking an Oklahoma Standard Teaching Certificate in Mathematics must elect Mathematics 3333.)	
3103 Introduction to Statistics .....	3 hours
3113 Probability and Statistics I .....	3 hours
3123 Probability and Statistics II .....	3 hours
3213 Abstract Algebra .....	3 hours
3253 Differential Equations .....	3 hours
3302 History of Mathematics .....	2 hours
3333 College Geometry .....	3 hours
3344 Computer Science I .....	4 hours
3443 Computer Science II .....	3 hours
4413 Linear Algebra .....	3 hours
4423 Number Theory .....	3 hours
4433 Matrix Algebra .....	3 hours
4471-3 Seminar in Mathematics .....	1-3 hours
4483 Introduction to Real Analysis .....	3 hours
4491-3 Independent Study in Mathematics .....	1-3 hours
III. MINOR FIELD (See page 117) .....	18 hours

\*Not required if equivalent courses were taken in high school.

\*\*1513 and 1613 duplicate 1715.

#### IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

Those students who wish to qualify for a standard teaching certificate in Mathematics in the State of Oklahoma must take 4772 Teaching of Secondary Mathematics and the Professional Education requirements listed on page 75.

#### V. MATHEMATICS-DATA PROCESSING

For the student who plans a major in Mathematics following an Associate Degree in Data Processing a total of 128 hours is required as follows:

During the freshman and sophomore years:

General Education .....24 hours  
(Must include Math 2215 and Math 2234)

Data Processing Major .....40 hours  
(Five hours of this may also count as  
General Education)

During junior and senior years:

Additional General Education .....26 hours  
Required mathematics courses

not previously taken .....7 hours  
Additional Upper Division mathematics .....18 hours  
Upper Division electives .....12 hours

#### VI. MATHEMATICS-ELECTRONICS

For the student who plans to major in Mathematics following an Associate in Electronics a total of 128 hours is required as follows:

During freshman and sophomore years:

General Education .....24 hours  
(Must include Math 2215 and Math 2234)

Electronics Major .....40 hours

During junior and senior years:

Additional General Education .....26 hours  
Required mathematics courses

not previously taken .....7 hours  
Additional Upper Division mathematics .....18 hours  
Upper Division electives .....12 hours

## DEPARTMENT OF MILITARY SCIENCE

Cameron University offers a Bachelor of Science degree with a major in General Education for military service personnel. The Department of Military Science provides liaison services for full-time active duty Army personnel enrolled in the program. This consists of assistance with orders and unit assignment while at Cameron University. Academic counseling for General Education majors, is provided by the Office of Admissions and Records and by the instructors in the student's area of specialization.

I. GENERAL EDUCATION (See page 83) .....	50 hours
II. MAJOR (Area of specialization) .....	30 hours
III. MINOR (See page 117) .....	24 hours
IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION*	

In most instances, Cameron University, follows the American Council on Education Guide in allowing college credit for validated service experience.

1. Credit will be granted for a minimum of one year's active duty as follows:
  - a. For Commissioned Officer: Eight semester hours of basic military science and 16 semester hours credit in Advanced Military Science.
  - b. For Warrant Officer: Eight semester hours of basic military science and 12 semester hours for Advanced Military Science provided verification is presented of his having served in a command position for at least 12 consecutive months.
  - c. For enlisted service: Eight semester hours in Basic Military Science.
2. Cameron accepts a maximum of 64 semester hours in "military" credits which include military service, USAFI credits, College GED, CLEP, CCT credits and service school credits. Credit on CLEP, GED and CCT General Exams is given only toward the B.S. in General Education. No credit is given for CLEP, GED or CCT General Exams on other B.A., B.S. and Associate Degree Programs. A maximum of 16 hours credit is given for CLEP subject exams.

\*A minimum of 24 semester hours of resident credit earned at Cameron and a total of 40 hours of upper division (Junior and Senior) courses must be completed by students in this program.



3. Only those military credits which are presented prior to enrollment at Cameron will be accepted.

Active duty personnel wishing more information or an evaluation of their records should contact the Cameron University Director of Admissions and Records.

## DEPARTMENT OF MUSIC

The Department of Music offers programs leading to a Bachelor of Arts degree with concentrations in the areas of vocal music, piano and/or instrumental music.

- I. GENERAL EDUCATION (See page 83) .....50 hours
- II. MAJOR-MINOR FIELD (with concentration in  
Voice, Piano or Instrumental) .....56 hours

*Required Courses:*

2913 Elementary Harmony I .....	3 hours
2933 Elementary Harmony II .....	3 hours
2921 Elementary Ear Training I .....	1 hour
2941 Elementary Ear Training II .....	1 hour
1212 Music Literature I .....	2 hours
1222 Music Literature II .....	2 hours
3913 Advanced Harmony I .....	3 hours
3933 Advanced Harmony II .....	3 hours
3921 Advanced Ear Training I .....	1 hour
3941 Advanced Ear Training II .....	1 hour
3101 Principles of Conducting .....	1 hour
3111 Instrumental Conducting OR	
3121 Choral Conducting .....	1 hour
3233 Music History I .....	3 hours
3243 Music History II .....	3 hours
4412 Counterpoint .....	2 hours
4952 Forms and Analysis .....	2 hours

Total 32 hours

## Required Area of Concentration

*Select Group A or Group B or Group C*

## GROUP A

## Vocal Music

Applied Music (voice) .....	16 hours
Applied Music (piano) .....	6 hours
Vocal Pedagogy .....	2 hours

Total 24 hours

## GROUP B

## Piano

Applied Music (piano) .....	17 hours
Applied Music (secondary instrument) .....	4 hours
Piano Pedagogy .....	3 hours
	<hr/>
Total	24 hours

## GROUP C

## Instrumental Music

Applied Music (primary instrument) .....	13 hours
Brass Class .....	2 hours
Woodwind Class .....	2 hours
Percussion Class .....	1 hour
Applied Music (piano) .....	4 hours
Orchestration .....	2 hours
	<hr/>
Total	24 hours

## III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

NOTE: *Students desiring to teach in two of the above areas should fulfill the requirements in both areas. Enrollment in the ensemble of the area of concentration is required of music majors every semester.*

*A recital on the student's major instrument is required for graduation. This recital may be public if approved by the music faculty.*

Music majors and those students seeking teacher certification must demonstrate defined skills and competencies required by the department. These specific requirements are outlined in departmental publications.

Those students who wish to qualify for a standard teaching certificate in Music in the State of Oklahoma must take Music 3712 (Elementary Music Methods) AND either Music 3722 (Secondary Music Methods, Vocal) OR Music 3742 (Secondary Music Methods, Instrumental) and the professional education requirements listed on page 74.

## DEPARTMENT OF PHYSICAL SCIENCE

The Department of Physical Science offers programs leading to the following:

- (a) Bachelor of Science degree with a major in Chemistry
- (b) Bachelor of Science degree with a major-minor in Natural Science
- (c) Bachelor of Science degree with a major in Physics

## CHEMISTRY

- |  |          |
|--|----------|
| I. GENERAL EDUCATION (See page 83) .....               | 50 hours |
| (Must include 1115-1215 or 2015-2025 Physics Sequence) |          |
| II. MAJOR FIELD .....                                  | 36 hours |

*Required Courses:*

General Chemistry .....	10 hours
1015-1225 General Chemistry .....	10 hours
OR	
1364, 1361, 1474 & 1471 Gen. Chem. ....	10 hours
2112 Chemical Analysis .....	2 hours
2222 Qualitative Chemistry .....	2 hours
OR	
Equivalent	
2223 Quantitative Analysis .....	3 hours
3314 Organic Chemistry I .....	4 hours
3324 Organic Chemistry II .....	4 hours

Select either Group A or Group B:

## GROUP A

4353 Physical Chemistry I .....	3 hours
4351 Physical Chemistry Laboratory .....	1 hour
4363 Physical Chemistry II .....	3 hours
4361 Physical Chemistry Laboratory .....	1 hour

## GROUP B

4403 Biochemistry I .....	3 hours
4401 Biochemistry Laboratory .....	1 hour
4413 Biochemistry II .....	3 hours
4411 Biochemistry Laboratory .....	1 hour
Chemistry electives to complete the requirements for the major .....	5-8 hours

III. MINOR FIELD (See page 117) .....18 hours  
*(It is strongly recommended that the student select a minor from the fields of Biology, Mathematics or Physics)*

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

Those Chemistry majors who wish to qualify for a standard teaching certificate in Science in the State of Oklahoma must take 4472 Methods of Teaching Physical Science and the professional education requirements listed on page 74.

NATURAL SCIENCE

I. GENERAL EDUCATION (See page 83) .....50 hours

II. MAJOR-MINOR .....50 hours

*Required Courses* .....38-41 hours

*Biology*

1114 General Botany .....4 hours

1114 General Zoology .....4 hours

Elective selected from 2000, or above level courses .....4 hours

Total 12 hours

*Chemistry*

1015 & 1225 General Chemistry .....10 hours

OR

1364, 1361, 1474 & 1471 General Chemistry ..10 hours

Organic Chemistry (3314-3324 sequence or 3345) .....5-8 hours

Total 15-18 hours

*Physics*

1115 General Physics .....4 hours

1215 General Physics .....4 hours

3003 Modern Physics .....3 hours

Total 11 hours

*Required Electives* .....13-16 hours

(Electives must be selected such that a minimum of 24 semester hours will be earned in one of the three above areas. Additional electives shall be selected from the area of Biology, Chemistry, or Physics.)

### III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

Those Natural science majors who wish to qualify for a standard teaching certificate in Science in the State of Oklahoma must take 4472 Methods of Teaching Physical Sciences and the professional education requirements listed on page 74.

#### PHYSICS

I. GENERAL EDUCATION (See page 83) .....50 hours  
 \*(Note: For those wishing to apply for an Oklahoma Teaching Certificate see General Education footnote below)

II. MAJOR FIELD .....41-44 hours

A. *Required Courses* .....29-32 hours

General Physics .....8-11 hours

1115-1215-2213 General Physics Sequence ..11 hours

OR

2015-2025 General Physics Sequence .....8 hours

3003 Modern Physics I .....3 hours

3011 Modern Physics Lab .....1 hour

3024 Elect. Meas. & Electronics .....4 hours

3031 Elect. Meas. Lab .....1 hour

3303 Mechanics .....3 hours

4113 Electricity & Magnetism .....3 hours

3403 Heat & Thermo .....3 hours

4403 Light .....3 hours

B. *Required Electives* .....12 hours

(A minimum of 6 semester hours must be taken from Group A Electives, and a minimum of 6 semester hours must be taken from Group B Electives.)

#### GROUP A ELECTIVES

(To be selected from the following)

Math 2244, 3344, 3443

Electronics 2014, 2064, 3033, 3123

Chem 2112, 3343, 4024

#### GROUP B ELECTIVES

(To be selected from the following)

Physics 3033, 4452, 4491-3

Chem 4353, 4363, 4351, 4361

Math 4413, 4433

\*\*Note: Students who plan to teach must take Chemistry 1015-1225 sequence or equivalent.

- III. MINOR FIELD (See page 117) .....18 hours  
(It is strongly recommended that the student select a minor from the fields of Mathematics, Chemistry, or Electronics.)
- IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

Those Physics majors who wish to qualify for a standard teaching certificate in Physics in the State of Oklahoma must take 4472 Methods of Teaching Physical Science and the professional education requirements listed on page 74.

## DEPARTMENT OF SOCIAL SCIENCE

The Social Science Department offers programs leading to the Bachelor of Arts degree, with majors in History and in Sociology.

## HISTORY

I. GENERAL EDUCATION (See page 83) .....	50 hours
II. MAJOR FIELD .....	41 hours
<i>Required Courses</i> .....	14 hours
Introductory European history .....	6 hours
1113 Early Western Civilization and	
1123 Modern Western Civilization	
Introductory American history (above and	
beyond general education requirement) .....	3 hours
1483 United States History to 1865 OR	
1493 United States History since 1865	
State history .....	2 hours
2112 Oklahoma History and Government	
Techniques of research and writing .....	3 hours
4793 Senior Seminar in History	
<i>Electives chosen from each of the following areas</i> .....	27 hours
American history courses numbered 3000	
or above in an approved program .....	9-12 hours
European history courses numbered 3000	
or above in an approved program .....	9-12 hours
Asian, Latin American or cognate studies	
(above and beyond the general	
education requirement) .....	3-6 hours
A course or courses in Asian history, Latin American	
history, Economics, Geography, Political Science or	
Sociology, or in any combination of these fields in	
which the student does <i>not</i> elect to minor.	
III. MINOR FIELD (See page 117) .....	18 hours
(The student is strongly advised to select Philosophy,	
Political Science, Economics, Sociology, English or a for-	
eign language for the minor.)	
IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR	
GRADUATION	



Those students who wish to qualify for a standard teaching certificate in social studies in the State of Oklahoma must take History 4772, Methods of Teaching History and the professional education requirements listed on page 74.

NOTE: *To qualify to teach economics, geography or sociology, a person must have at least 6 hours in the subject. To qualify to teach civics, a person must have 6 hours of American history and government with credit in economics or sociology. To teach Democracy, college credit is required in two or more of the following: American history and government, economics or sociology. To qualify to teach history and government, college credit is required in such subjects as American history, ancient and medieval history, modern history, world history, and American government with a minimum of 6 semester hours in each subject taught. A minimum of 4 hours of American history and government plus 2 semester hours of Oklahoma history shall be required to teach Oklahoma history.*

## SOCIOLOGY

I. GENERAL EDUCATION (See page 83) .....	50 hours
II. MAJOR FIELD .....	36 hours
<i>Required Courses</i> .....	27 hours
1113 Principles of Sociology .....	3 hours
2023 Social Problems .....	3 hours
3113 Development of Sociological Thought .....	3 hours
3123 Contemporary Social Theory .....	3 hours
3223 Methods of Social Research .....	3 hours
4793 Senior Seminar: Selected Topics .....	3 hours
Other Sociology courses numbered 3000 or above .....	9 hours
<i>Electives</i> .....	9 hours
Above and beyond the general education and minor requirements, and selected from additional courses in Sociology and/or from approved electives in related subjects, which include:	
Geography 2243, Human Geography	
Biology 3013, Environment and Man	
Psychology 3383, Social Psychology	
Speech 4523, Psychology of Communication	
III. MINOR FIELD (See page 117) .....	18 hours
IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION	

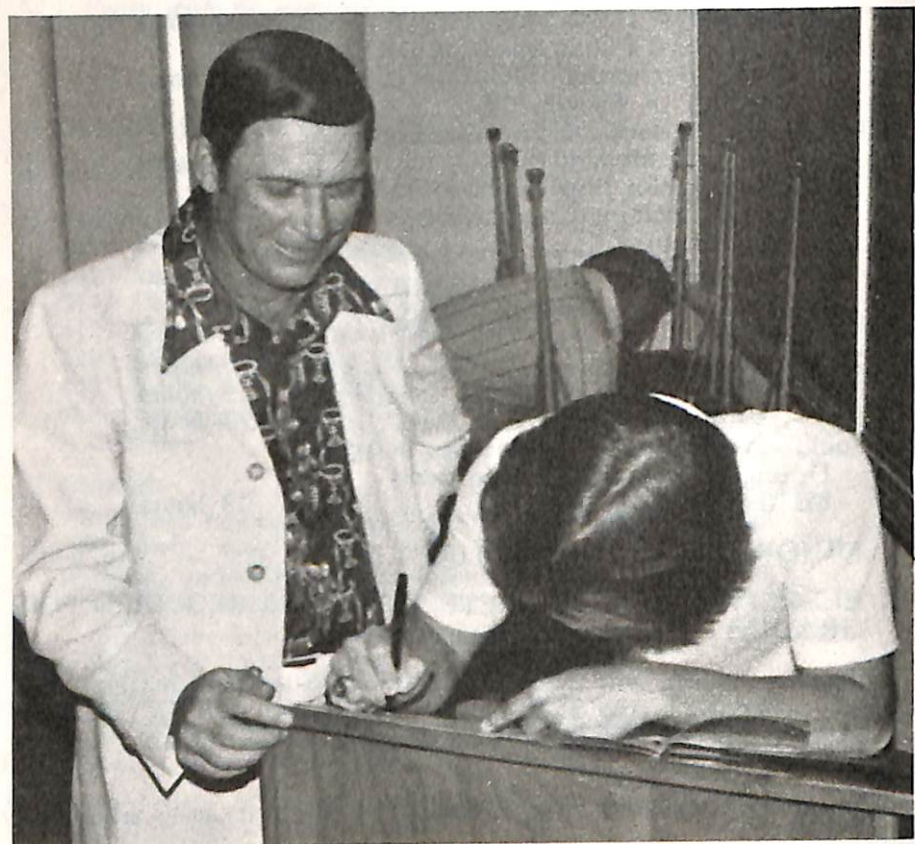
## DEPARTMENT OF SPEECH-DRAMA

The Department of Speech-Drama offers a program leading to a Bachelor of Arts degree with a major in Speech-Drama.

I. GENERAL EDUCATION (See page 83) .....	50 hours
II. MAJOR FIELD .....	33 hours*
<i>Required Courses</i> .....	11 hours
1133 Voice and Diction .....	3 hours
2212 Introduction to Theater .....	2 hours
2313 Discussion Methods .....	3 hours
2533 Oral Interpretation of Literature .....	3 hours
<i>Select either Group A or Group B</i>	
Group A	
SPEECH	
2143 Debate I .....	3 hours
3313 Advanced Public Speaking OR	
3633 Persuasion .....	3 hours
3373 History of Speech OR	
3353 Discussion and Conference	
Leadership .....	3 hours
Junior and Senior level electives in Speech-	
Drama to complete requirements	
for the major .....	13 hours
Group B	
DRAMA	
2113 Stagecraft .....	3 hours
2213 Fundamentals of Acting .....	3 hours
3383 History of Theater .....	3 hours
Junior and Senior level electives in Speech-	
Drama to complete requirements	
for the major .....	13 hours
III. MINOR FIELD (See page 117) .....	18 hours
IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION	

Those students who wish to qualify for a standard teaching certificate in Speech in the State of Oklahoma must take 4772 Teaching Speech in the Secondary School and the professional education requirements listed on page 74.

\*No grade of less than "C" in a course in the major field will count on these requirements.



## DEPARTMENT OF TECHNOLOGY

The Department of Technology offers a program leading to a Bachelor of Science degree with a major in Technology.

The curriculum is designed to prepare the associate degree technician for mid-management and/or positions in the technical specialty that require greater responsibility. The program includes common courses in the area of the technology and related subjects. Qualified associate degree graduates of junior colleges, colleges and Technical Institutes may seek the degree.

I. GENERAL EDUCATION (See page 83) .....	50 hours
II. MAJOR-MINOR .....	60 hours
Technical Specialty .....	32 hours
Technology .....	12 hours
Tech 3013 Technical Report Writing .....	3 hours
Tech 3023 Prin. of Supervision .....	3 hours
Tech 4033 Indust. Organ. & Labor Mgmt. ....	3 hours
Tech 4003-6 Dir. Observation & Student on-the-job Internship .....	3-6 hours
Required Upper Division Electives .....	16 hours
Engineering related technology graduates select electives from Physics, Chemistry, Math, Business, Management, and Office Administration.*	
Business related technology graduates select electives from Business, Accounting, Management, Office Administration, and Math.*	
Law Enforcement technology graduates select electives from Sociology, Psychology, Business, Management, and Office Administration.*	
III. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION	

NOTE: *Individuals planning to enter the Bachelor of Science degree program with a major in Technology are required to file formal application for admission to such study. Students desiring admission may make application during the last semester of the*

\*Other upper division electives may be selected and approved by the department on the basis that the courses complement the associate degree and best serve to meet the goals and objectives of the student.

*sophomore year. The following data are used in considering an applicant for admission to the program:*

1. An Associate Degree or an appropriate certificate of accomplishment for acceptable work done in an accredited college.
2. A formal application. The application form may be obtained from the Department of Technology.
3. A college transcript.
4. Record of college entrance test (ACT or SAT)
5. Recommendation of the major advisor (Freshman-Sophomore).

Persons admitted to the program will be assigned a major advisor. The advisor and the student will determine a suitable program of study. The program of study will be filed with the Chairman of the Department of Technology. Any deviation from the program of study must have prior approval from the major advisor. The individual will be advised if admission is probationary or denied.

Graduates from the associate degree programs listed below are typical of those qualified to work toward a B.S. Degree with a major in Technology.

RN Nurse  
General Technology  
Electromechanical  
Electronics  
Mechanical Technology  
Drafting and Design  
Data Processing  
Law Enforcement  
Fire Protection  
Marketing and Mid-Management  
Agriculture Technology

Also, persons who have a minimum of 24 college credit hours in a Trade and Industrial concentration may be qualified for the degree program.

## SUBJECT MINORS

A minor for Bachelor of Arts and Bachelor of Science degree programs at Cameron University consists of a minimum of 18 course hours in an approved subject area. Students may not major and minor in a subject having the same prefix unless the university offers an approved major-minor in that subject. The following constitute the approved areas in which students may earn subject minors.

Accounting	Health and Physical
Agriculture	Education
Art	History
Biology	Home Economics
Chemistry	Journalism
Coaching of Athletics	Language Arts
Data Processing	Law Enforcement
Design Drafting	Management
Drama	Mathematics
Driver & Safety	Military Science
Education*	Music
Economics	Nursing
Electronics	Philosophy
English	Psychology
Foreign Language**	Physics
French	Political Science
Geography	Sociology
German	Spanish
	Speech

A transfer student may use work at other institutions toward meeting requirements of the above listed minors. The transfer student who desires to minor in a field not listed above may be approved to do so providing Cameron University offers at least 8 hours in the subject area.

## Suggested Minor Program Outlines

Course outlines have been suggested for minors in Data Processing, Drafting Design, Electronics, Law Enforcement, Coaching of Athletics, Health and Physical Education, Chemistry, Home Economics, Language Arts, Mathematics, Philosophy, and Physics. The student should consult his advisor or the appropriate department for information concerning the courses constituting his chosen minor.

\*Those persons meeting all the requirements of the certificate (see page 97) will be considered to have met the college requirement for a subject minor.

\*\*For the student who is interested in acquiring basic speaking and listening skills in more than one language, rather than a concentrated study of just one. Any combination of foreign language credits is acceptable.

## Art

Color or Design .....	3	hours
Perception or Drawing .....	3	hours
Painting .....	3	hours
Sculpture or Crafts .....	3	hours
Upper-Division Electives .....	6	hours
		18
Total		hours

## Coaching of Athletics Certification

*(Closed to Health and Physical Education Majors)*

I. HEALTH .....	6	hours
1. 3244 Applied Anatomy and Kinesiology .....	4	hours
2. 3292 Care of Athletic Injuries .....	2	hours
II. ADMINISTRATION AND THEORY OF COACHING .....	8-9	hours
1. 4003 Organization and Administration of Health, Physical Education and Interscholastic Athletes .....	2-3	hours
2. Theory of Coaching (minimum of 6 hours in two or more different sports) .....	6-7	hours
III. ELECTIVE COURSES .....	5-6	hours
Courses chosen from the following as desired or needed to complete 20 hours for certification requirement.		
Sports Officiating .....	2	hours
Weight Training .....	1	hour
Tennis .....	1	hour
Golf .....	1	hour
Gymnastics .....	1	hour
Swimming .....	1	hour
Intercollegiate Sports .....	1	hour

## Chemistry

General Chemistry 1314 and 1414 OR 1515 .....	5-8	hours
Analysis 2112 OR 2222 OR 2223 .....	2-3	hours
Organic Chemistry 2345 OR 2204 OR 3314 and 3324 .....	4-8	hours
Electives to total .....	18	hours

## Data Processing

1013 Introduction to Data Processing .....	3 hours
1024 Introduction to Programming .....	4 hours
2043 Assembly Language Programming .....	3 hours
2163 RPG .....	3 hours
2054 Cobal OR 3063 Fortran .....	3-4 hours
Electives to total .....	18 hours

## Design Drafting

1013 Engineering Graphics I .....	3 hours
1023 Engineering Graphics II .....	3 hours
2013 and 3024 Architectural Design and 2123 Surveying OR	
1072 Tool Design, 2064 Structural and 3034	
Machine Design .....	10 hours
Electives to total .....	18 hours

## Electronics

1014 Electricity .....	4 hours
1024 Network Analysis .....	4 hours
1054 Introduction to Electronics .....	4 hours
2014 Amplifiers .....	4 hours
Electives to complete .....	18 hours

## Health and Physical Education

Health .....	6 hours
Health chosen from the major under Letter A and Care of	
Athletic Injuries, including 2212 First Aid .....	2 hours
Health and Physical Education Theory .....	6 hours
Health and Physical Education Theory chosen from the Major	
under Letters B and D, including 2322 Introduction to Health,	
Physical Education and Recreation .....	2 hours
Physical Education Activity .....	6 hours
Physical Education Activity chosen from the major under	
Letter C, including Swimming, Tumbling and	
Gymnastics .....	2 hours
The minor must include four to six hours numbered in the	
3000 and 4000 series.	



### Home Economics

There are several suggested options for the student who elects a minor in Home Economics. Concentration in any of the following areas is recommended:

- General Home Economics
- Child Development and Family Relations
- Clothing and Textiles
- Food and Nutrition

Detailed information may be obtained from the Home Economics staff.

### Language Arts

It is recommended that 9 to 12 hours be selected from one of the following areas and that 6 to 9 hours be selected from one or more of the other fields listed, for a total of 18 hours. The language arts areas consist of:

- Foreign Language
  - Journalism
  - Library Science
  - English (sophomore level or above)
- (The English option is closed to English majors.)

### Law Enforcement

1013 Introduction to Law Enforcement .....	3	hours
1023 Police Patrol and Services .....	3	hours
1033 Criminal Law .....	3	hours
2012 Police Ethics .....	2	hours
1043 Criminal Evidence .....	3	hours
Electives to total .....	18	hours

### Mathematics

*1715 College Algebra and Trigonometry .....	5	hours
**1513 College Algebra .....	3	hours
**1613 Trigonometry .....	3	hours
2215 Analysis I .....	5	hours
Electives (numbered 2000 or above) to total .....	18	hours

\*Not required if equivalent courses were taken in high school.

\*\*Mathematics 1513 and Mathematics 1613 duplicate Mathematics 1715.

## Philosophy

1113 Introduction to Philosophy .....	3	hours
2213 Elementary Logic .....	3	hours
3013 Ethics .....	3	hours
3023 American Political Thought .....	3	hours
3113 Development of Sociological Thought .....	3	hours
4783 Philosophy of History .....	3	hours
Total	<hr/>	18 hours

## Physics

Physics 1314 and 1414 OR 2014 and 2024 .....	18	hours
Modern Physics 2033 .....	3	hours
Electives to total .....	18	hours

## ASSOCIATE DEGREE PROGRAMS

Cameron University offers a two-year curricula in Sciences leading to the degree of Associate in Science. A student may earn an Associate in Science degree with a major in one of the following areas:

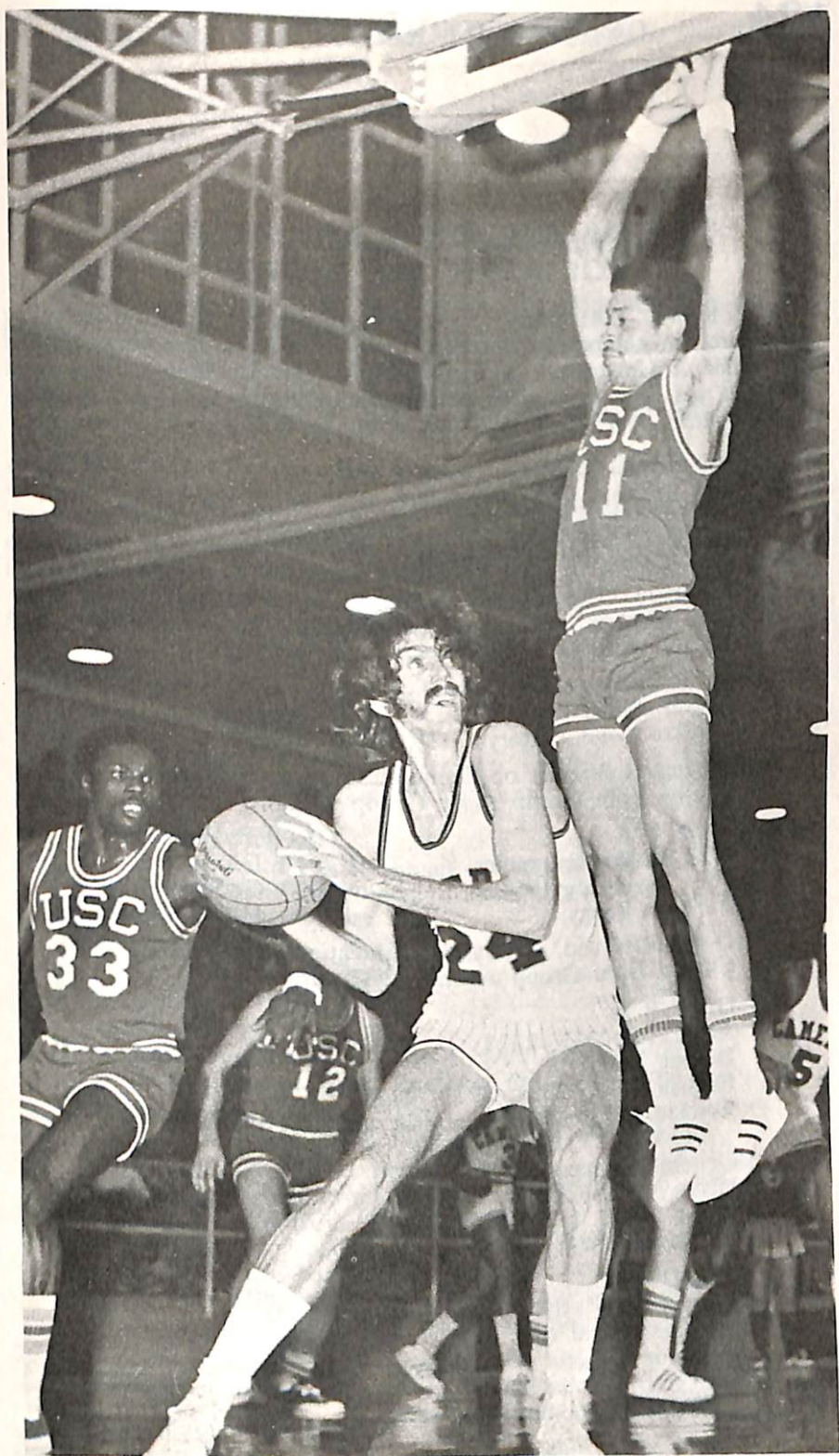
- Data Processing
- Design Drafting
- Electronics
- General Education (for Military Only)
- Law Enforcement
- Nursing

## REQUIREMENTS FOR GRADUATION

The individual who enters Cameron may graduate under the curriculum required by the catalog for that year or, under any other single catalog which is subsequently issued while he is in attendance at the university.

To secure an Associate Degree from Cameron University a student must satisfy the following requirements, plus any others stipulated for the degree for which a student is a candidate:

1. A minimum of 64 hours credit with a cumulative average of 2.00 or higher must be completed.
2. At least three-fourths of the work must be done in residence at an approved institution.
3. The last fifteen hours must be taken in residence at Cameron University.
4. Degrees will be conferred twice each year, at the end of the spring semester and at the end of the summer session. Candidates must apply for the degree at the Admissions Office at the beginning of the semester or term preceding graduation.



## GENERAL EDUCATION REQUIREMENTS FOR ASSOCIATE DEGREE

Twenty-four (24) hours of General Education as outlined below are required of each person who receives an Associate in Science Degree from Cameron University. Students should consult the specific general education and degree requirements for their chosen major in ascertaining the courses which they take to satisfy the following requirements:

GENERAL EDUCATION .....24 hours

1. Math and/or Science .....3-4 hours  
Mathematics selected from any freshman level course 1013 or above.
2. Communications .....6 hours  
1113 English .....3 hours  
1213 English or 1113 Speech .....3 hours
3. Social Science .....6 hours  
1113 Political Science .....3 hours  
1483 or 1493 History .....3 hours
4. Behavioral Science or Economics .....3 hours  
Chosen from Group A or Group B

### GROUP A

1123 Home Economics  
1113 Psychology  
1113 Sociology

### GROUP B

2013 Economics  
3023 Geography  
3603 Home Economics

5. Humanities and/or Physical Education ....3-4 hours  
Chosen from Group A and/or Group B

### GROUP A

Art 2112, 2313, 2323  
Drama 2212  
English 2543, 2653, 2713, 2723, 2773, 2883  
Foreign Language (French, German or Spanish)  
1113, 1223, or equivalent  
General Humanities 2114, 2224  
History 1113, 1123, 2473  
Music 1212, 1222, 2012, 2022  
Philosophy 1113, 2213

### GROUP B

Any physical education activity course(s)  
Marching band (not to exceed 2 courses)  
Intramural sports (not to exceed 2 courses)  
Any four enrollments in Military Science courses  
having leadership laboratories.

6. Electives to total 24 semester hours.

## SPECIFIC DEGREE REQUIREMENTS

On the following pages the specific requirements for major programs in the various areas are listed

## DEPARTMENT OF MILITARY SCIENCE

Cameron University offers an Associate in Science degree with a major in General Education for military service personnel. The Department of Military Science provides liaison services for full-time active duty Army personnel enrolled in the program. This consists of assistance with orders and unit assignments while at Cameron University. Academic counseling for General Education majors is provided by the Office of Admissions and Records.

I. MAJOR ..... 40 hours

## A. Required Courses:

- |  |           |
|--|-----------|
| 1. Language Arts .....   | 6 hours   |
| a. 1113 English .....  | 3 hours   |
| b. 1213 English .....  | 3 hours   |
| 2. Mathematics .....   | 3 hours   |
| Chosen from any freshman course other than beginning, intermediate, or beginning-intermediate algebra. |           |
| 3. Social Science .....  | 6 hours   |
| 1113 Political Science .....   | 3 hours   |
| 1483 or 1493 History .....   | 3 hours   |
| 4. Science .....   | 8 hours   |
| This must include 4 hours credit in Biological Science and 4 hours credit in Physical Science          |           |
| 5. Behavioral Science .....  | 3 hours   |
| 1113 Psychology or 1113 Sociology .....  | 3 hours   |
| 6. Physical Activity* .....  | 4-8 hours |
| To be selected from any four enrollments in any combination from the following:**                      |           |
| a. Any physical education "activity" course(s)   |           |
| b. Marching band (not to exceed 2 courses.)  |           |
| c. Any Military Science course(s) which include(s) credit or non-credit leadership laboratory.         |           |

\*Not required if the student is 30 years of age or older or if a doctor recommends waiving the requirement.

\*\*Credit for basic military service with a minimum of one year fulltime active service also fulfills this requirement when proper papers are presented to the Office of Admissions.

- B. Required Electives ..... Sufficient to total 40 hours  
 Selected from the following with no more than two  
 courses from: Agriculture, Art, Business, Home Eco-  
 nomics, Foreign Language, Music, Speech-Drama,  
 Philosophy, or Technology.

## II. ELECTIVES TO COMPLETE 64 HOURS REQUIRED FOR GRADUATION

Courses may be selected from the following:

Agriculture	Meteorology
Biology	Physical Science
Business	Psychology
Fine Arts	Social Science
Home Economics	Speech
Language Arts	Technology
Mathematics	

A maximum total of 32 hours of non duplicating credit can be earned by the following means:

- (a) CLEP subject matter exams
- (b) Cameron Advanced Standing Exams
- (c) USAFI Subject Exams (Maximum of 16 hours)
- (d) Non-USAFI Extension or Correspondence Schools
- (e) Service Schools
- (f) Military Science

No credit is given for CLEP, GED or CCT General Exams.

## DEPARTMENT OF NURSING

To insure high quality instruction, the class enrollment is limited each year. Selection is made in the spring by a review committee for fall admission. Enrollment in general education courses does not insure admission into the Department of Nursing. A student's enrollment in the Nursing Program may be discontinued at any time, if in the judgment of the faculty of the Department of Nursing and the Admissions and Retention Committee, the student does not seem to be suitable for a nursing career.

- I. GENERAL EDUCATION (See page 124) ..... 24 hours  
 (Must include Zoology 1124 and Psychology 1113)
- II. MAJOR ..... 46 hours

*Required Courses:*

1018 Integrated Nursing I .....	8 hours
1027 Integrated Nursing II .....	7 hours
2039 Integrated Nursing III .....	9 hours
2049 Integrated Nursing IV .....	9 hours
1343 Basic Nutrition .....	3 hours
1113 Principles of Sociology .....	3 hours
3343 Psychology of Childhood .....	3 hours
2034 Bacteriology .....	4 hours

For graduation the student shall achieve an overall grade point average of 2.0 (C). In addition, the student shall make a satisfactory grade (C) in all courses required by the Nursing Department. A student receiving a grade of "unsatisfactory" in the clinical laboratory portion of a nursing course cannot receive a passing grade in that nursing course.

All nursing courses shall be completed at Cameron University unless special permission for transfer credit is arranged with the Chairman of the Nursing Department and the Registrar.

Students who are admitted to the Nursing Program are required to purchase student nurse liability insurance and all students are eligible to become members of the Oklahoma State Student Nurses Association.



## DEPARTMENT OF TECHNOLOGY

The Department of Technology offers programs leading to the following:

- (a) Associate in Science degree with a major in Data Processing.
- (b) Associate in Science degree with a major in Design Drafting.
- (c) Associate in Science degree with a major in Electronics.
- (d) Associate in Science degree with a major in Law Enforcement.

The programs are designed for the specific purpose of preparing the individual for useful employment as a technician. Qualified graduates, who are interested in advanced study, may pursue the Bachelor of Science degree with a major in Technology. See page 115 for the Bachelor of Science degree requirements.

## DATA PROCESSING TECHNOLOGY ASSOCIATE DEGREE REQUIREMENTS

- |  |          |
|--|----------|
| I. GENERAL EDUCATION .....   | 24 hours |
| (In meeting the General Education requirements the student must take Math 1213, Acctg 2013 and Acctg 2023. For remaining General Education Requirements see page 124). |          |
| II. MAJOR .....  | 32 hours |
| Data P 1013 Intro to Data Processing .....3 hours  |          |
| Data P 1024 Intro to Programming .....4 hours  |          |
| Data P 1063 Data Processing Math .....3 hours  |          |
| Data P 2043 Assemb Lang Programming .....3 hours   |          |
| Data P 2054 COBOL Programming .....4 hours   |          |
| Data P 2163 RPG Programming .....3 hours   |          |
| Data P 2173 Adv Assemb Lang Prog .....3 hours  |          |
| Data P 3063 FORTRAN Programming .....3 hours   |          |
| Data P 3074 Systems Design & Develop .....4 hours  |          |
| Data P 3082 Adv Programming Problems .....2 hours  |          |
| III. SELECTED ELECTIVES (Advisor Approval) .....   | 8 hours  |
| Selected from the following:   |          |
| Accounting 3133  |          |
| Business 3613 or Math 3113 or Math 3013  |          |
| Technical Course(s)—Any related course   |          |
| IV. ELECTIVES TO COMPLETE 64 HOURS REQUIRED FOR GRADUATION   |          |

## DESIGN DRAFTING TECHNOLOGY ASSOCIATE DEGREE REQUIREMENTS

III. GENERAL EDUCATION (See page 124) ..... 24 hours

II. MAJOR ..... 40 hours

*Required Courses* ..... 32 hours

1013 Introduction to Data Processing ..... 3 hours

1023 RPG Programming ..... 3 hours

1063 Data Processing Math ..... 3 hours

2112 FORTRAN Programming ..... 2 hours

2033 Systems Concepts ..... 3 hours

2053 COBOL Programming ..... 3 hours

2083 Systems Analysis ..... 3 hours

3023 Facilities Management ..... 3 hours

3043 Management Information Systems ..... 3 hours

3053 Advanced COBOL Programming ..... 3 hours

2001-3 Special Problems and/or  
2061-3 Computer Operation ..... 3 hours

*Electives (Advisory Approval)* ..... 8 hours

Selected from the following:

Accounting 3133

Business 3613 or Math 3113 or Math 3103

Technical Course(s)—Any related course

III. ELECTIVES TO COMPLETE 64 HOURS REQUIRED FOR  
GRADUATION

**ELECTRONICS TECHNOLOGY**  
**ASSOCIATE DEGREE REQUIREMENTS**

- III. GENERAL EDUCATION (See page 124) .....24 hours
- II. MAJOR .....32 hours
1. *Required* .....24 hours
- Elect 1014 Electricity .....4 hours
- Elect 1024 Network Analysis .....4 hours
- Elect 1054 Intro to Electronics .....4 hours
- Elect 2014 Electronic Amplifiers .....4 hours
- Elect 2044 Communications .....4 hours
- Elect 2064 Pulse & Switching .....4 hours
2. *Electives* .....8 hours
- Elect 2112 Rotating Machinery .....2 hours
- Elect 3033 Automatic Control Systems .....3 hours
- Elect 3043 Television Systems .....3 hours
- Elect 3123 Prin of Computers .....3 hours
- III. SELECTED ELECTIVES (Advisor Approval) .....8 hours
- Selected from the following:
- Mathematics
- Physics
- Technical Course(s)—Any related course
- IV. ELECTIVES TO COMPLETE 64 HOURS REQUIRED FOR GRADUATION

## LAW ENFORCEMENT TECHNOLOGY ASSOCIATE DEGREE REQUIREMENTS

- I. GENERAL EDUCATION .....24 hours  
 (In meeting the General Education requirements the student must take Speech 1113, Psych 1113 and Soci 1113. For remaining General Education requirements see page 124.)
- II. MAJOR .....32 hours
- |   |         |
|---|---------|
| Law En. 1013 Intro to Law Enforcement .....     | 3 hours |
| Law En. 1023 Police Patrol & Services .....     | 3 hours |
| Law En. 1033 Crim. Law & Admin of Justice ..... | 3 hours |
| Law En. 1043 Criminal Evidence .....            | 3 hours |
| Law En. 2012 Police Ethics .....                | 2 hours |
| Law En. 2053 Police Traffics .....              | 3 hours |
| Law En. 2063 Criminal Investigation .....       | 3 hours |
| Law En. 2083 Organization of Law Enforce .....  | 3 hours |
| Law En. 3013 Spec Prob in Law Enforcement ..... | 3 hours |
| Law En. 3023 Correctional Processes .....       | 3 hours |
| Law En. 3033 Juvenile Procedure .....           | 3 hours |
- III. SELECTED ELECTIVES (Advisors Approval) .....8 hours  
 Selected from the following:  
 Psychology  
 Sociology  
 Technical Course(s)—Any related course
- IV. ELECTIVES TO COMPLETE 64 HOURS REQUIRED FOR GRADUATION

## PRE-PROFESSIONAL PROGRAM

Cameron University offers course work at the Pre-professional level for such fields as Pre-Medicine, Pre-Dentistry, Pre-Law, Pre-Pharmacy, Pre-Veterinary Medicine and Pre-Engineering.

The requirements for admission to specific professional schools vary considerably. A person should therefore consult the catalog of the professional school to which he plans to apply for admission for guidance in course selection. Departmental chairmen at Cameron are familiar with the requirements of most professional schools and can assist in appropriate selection of courses.

## NON-DEGREE PROGRAMS

A person may pursue a non-degree program relating to a vocation, avocation, or further study. The department in which course work is to be taken should be consulted regarding the plan of study.



## COURSE DESCRIPTIONS

This section contains course descriptions, listed alphabetically by department or subject matter area

### AGRICULTURE

David Martin, Assistant Professor and Department Chairman  
Assistant Professors: Doane, Kennedy, Prophet.

- 1123 **LIVESTOCK FEEDING, 3 hours credit**  
An elementary study of livestock feeding problems. The selection and preparation of feeds for the different classes of livestock. Practical feeding methods, balancing rations for various kinds of livestock. Lecture 3 hours.
- 1124 **INTRODUCTION TO ANIMAL SCIENCE, 4 hours credit**  
Species adaptability, product standards and requirements, areas and types of production, processing and distribution of products; (includes meat animals, dairy and poultry.) Lecture 3 hours, Laboratory 2 hours.
- 1214 **INTRODUCTION TO PLANT SCIENCE, 4 hours credit**  
Factors determining growth, distribution, culture, improvement and utilization of economic plants. Lecture 3 hours, laboratory 2 hours.
- 1334 **INTRODUCTION TO AGRICULTURAL ECONOMICS, 4 hours credit**  
A study of economic principles as they are related to the national economy, production, marketing and consumption of agricultural products. Lecture 4 hours.
- 2124 **FUNDAMENTALS OF SOIL SCIENCE, 4 hours credit**  
A general course dealing with the origin, chemical, physical, and biological properties of soils in relation to plant growth, soil productivity and land use. Lecture 3 hours, laboratory 2 hours. Prerequisite: Chemistry 1225 or 1474 or equivalent.
- 3303 **PRINCIPLES OF AGRICULTURAL MARKETING, 3 hours credit**  
Analysis of the marketing system; its importance to the economy and the role of the individual firm. Understanding of basic concepts, problems, and decision aids is emphasized. Lecture 3 hours. Prerequisite: Agric. 1334.
- 4571-2 **AGRICULTURAL SEMINAR, 1-2 hours credit**  
Review and discussion of current research papers, research work and problems in agriculture. Lecture 1 hour. Prerequisite: Senior standing.

### Agronomy

- 3012 **IDENTIFICATION, GRADING AND ANALYSIS OF FIELD CROPS, 2 hours credit**  
Identification of field crops, important disease which attack them, weed seeds, practice in judging quality and values of seeds and crop products, and commercial grain grading. Lecture 1 hour, laboratory 2 hours. Prerequisite: Agric. 1214.

- 3214 **FORAGE, RANGE, AND PASTURE CROPS, 4 hours credit**  
Principles and applications in relation to production, management, utilization, and improvement. Lecture 3 hours, laboratory 2 hours. Prerequisite: Agric. 1214. and junior standing.
- 3683 **PHYSICAL PROPERTIES OF SOILS, 3 hours credit**  
Physical properties of soils and their influence on plant growth. Lecture 2 hours, laboratory 2 hours. Prerequisite: Agric. 2124. and general chemistry.
- 4124 **PESTICIDES, 4 hours credit**  
Identification, distribution, characteristics, and methods of controlling pests. Lecture 3 hours, laboratory 2 hours. Prerequisite: Chem. 3345 and Biology 3024.
- 4233 **SOILS FERTILITY AND MANAGEMENT, 3 hours credit**  
Soil fertility, fertilizer materials, and management factors determining maintenance and improvement of soil productivity and conservation. Lecture 2 hours, laboratory 2 hours. Prerequisite: Agric. 2124 and Chem. 3345 and senior standing.
- 4674 **GRAIN CROPS, 4 hours credit**  
Principles of grain crop production, distribution, classification, and improvement of grain crops. Lecture 3 hours, laboratory 2 hours. Prerequisite: Botany 1114 and Biol. 2003.

### Animal Science

- 3101 **LIVESTOCK EVALUATION, 1 hour credit**  
Instruction in selection, evaluating, fitting, showing and judging of livestock. Laboratory 2 hours.
- 3111 **LIVESTOCK EVALUATION, 1 hour credit**  
This course is a continuation of An. Sci. 3101. Laboratory 2 hours. Prerequisite: An. Sci. 3101.
- 3133 **BREEDS OF LIVESTOCK, 3 hours credit**  
Study of the origin, history, development and characteristics of livestock breeds and of the specific purposes of each breed. Lecture 2 hours, laboratory 2 hours. Prerequisite: Agric. 1124.
- 3653 **APPLIED NUTRITION, 3 hours credit**  
Composition, characteristics and nutritive value of feeds and ration additives, qualitative and quantitative nutrient requirements of each of the classes of livestock, formulation of rations for each of the classes of livestock. Lecture 2 hours, laboratory 2 hours. Prerequisite: Chem. 3345 and Agriculture 1123.
- 4114 **LIVESTOCK PRODUCTION AND MANAGEMENT, 4 hours credit**  
Modern production and management practices for beef cattle, swine, and sheep. Lecture 3 hours, laboratory 2 hours. Prerequisite: Animal Science 3133 and 3653.
- 4434 **ANIMAL REPRODUCTION, 4 hours credit**  
Physiological processes of reproduction in farm animals, gonadal function, endocrine relationships, fertility, and factors affecting reproduction efficiency. Emphasis is given to principles of artificial insemination in the laboratory. Lecture 3 hours, laboratory 2 hours. Prerequisite: Biol. 2003 or Biol. 4004.



## ART

Jack Bryan, Assistant Professor and Department Chairman  
 Assistant Professors: Pogue, Shaw;  
 Instructors: Edmundson, Warren.

- 1013 **BASIC DRAWING I, 3 hours credit**  
 A beginning drawing course with emphasis upon theory, creative interpretation and practice in the elements of drawing. Not restricted to Art majors. Laboratory 6 hours.
- 1023 **PERCEPTION, 3 hours credit**  
 Providing drawing experiences that coordinate seeing, thinking, and delineation. Laboratory 6 hours.
- 1223 **FUNDAMENTALS OF ART, 3 hours credit**  
 An introduction to art through studio experience. Explores two-dimensional and three-dimensional media, by an analysis of form, and expression. Laboratory 6 hours.
- 1413 **BEGINNING SCULPTURE, 3 hours credit**  
 A course in 3-dimensional forms. Laboratory 6 hours.
- 1243 **BEGINNING PAINTING, 3 hours credit**  
 A painting course emphasizing composition, form and color. Laboratory 6 hours.
- 2033 **FIGURE DRAWING I, 3 hours credit**  
 A studio course emphasizing the development of concepts and techniques required to accomplish competent graphic expression. Laboratory 6 hours per week. Prerequisite: Art 1023.
- 2112 **ART APPRECIATION, 2 hours credit**  
 An introduction to the many aspects of visual art: cultural backgrounds, functions, techniques, materials, and aesthetics. A general humanities course open to all students. Lecture 2 hours.
- 2123 **COLOR, 3 hours credit**  
 Exploration and analysis of color. Laboratory 6 hours.
- 2133 **DESIGN, 3 hours credit**  
 Exploration and analysis of the elements of design, including line, shape, form, time, and space. Laboratory 6 hours.
- 2313 **HISTORY OF ART, PREHISTORIC TO THE RENAISSANCE, 3 hours credit**  
 A survey of the painting, sculpture, architecture, and minor arts from prehistoric times through the Gothic period. (Illustrated with visual aids.) Lecture 3 hours.
- 2323 **HISTORY OF ART, RENAISSANCE TO THE PRESENT, 3 hours credit**  
 A survey of the painting, sculpture, architecture, and minor arts from the Gothic period to the 20th century. (Illustrated with visual aids.) Lecture 3 hours.
- 2433 **BEGINNING CERAMICS, 3 hours credit**  
 Exploration for form and expression through clay. Emphasis will be on hand building techniques. Laboratory 6 hours.
- 2453 **BEGINNING JEWELRY, 3 hours credit**  
 A course in Jewelry using soldered, cast, and forged processes. Laboratory 6 hours.

- 3043 **ADVANCED DRAWING, 3 hours credit**  
Advanced problems in creative graphic expression. Prerequisite: Art 2033. Laboratory 6 hours.
- 3053 **SERIGRAPHY, 3 hours credit**  
An introduction to silk screen printing techniques. Lecture 1 hour, laboratory 4 hours. Prerequisite: Art 2123.
- 3063 **GRAPHICS, 3 hours credit**  
A studio course in printmaking, utilizing intaglio, relief, and smooth plane techniques in combination with various graphic media. Prerequisite: Permission from the Department of Art. Lab Fee.
- 3233 **ADVANCED PAINTING I, 3 hours credit**  
A studio course emphasizing the development of creative concepts and ideas through painting. Laboratory 6 hours. Prerequisite: Art 2123.
- 3403 **CERAMICS, 3 hours credit**  
Experiencing clay through hand-built methods of construction, firing and glaze formation. Lecture 1 hour, laboratory 4 hours. Prerequisite: Art 2433.
- 3423 **SCULPTURE II, 3 hours credit**  
Exploration and involvement in three dimensional media. Techniques in metal casting, welding, and wood-work. Open studio and seminar structure. Laboratory 6 hours. Prerequisite: Art 1413.
- 3433 **ADVANCED JEWELRY AND METALWORKING, 3 hours credit**  
Development and execution of advanced problems emphasizing experimental elements in Jewelry making. Laboratory 6 hours. Prerequisite: Art 2453, or equivalent.
- 3773 **PUBLIC SCHOOL ART, 3 hours credit**  
A course defining the role of art in the public schools and its pragmatic applications. Laboratory 6 hours per week. Prerequisite: Art 1223 and departmental permission.
- 3881-2 **WORKSHOP, 1 to 2 hours credit**  
A concentrated course of specific art activities designed to extend current course offerings. May be repeated for a maximum of 4 hours credit.
- 4001 **SENIOR ART EXHIBITION, 1 hour credit**  
A senior art exhibition required of the degree candidate.
- 4063 **ADVANCED PRINTMAKING I, 3 hours credit**  
Printmaking experiences are offered in etching and engraving, plate lithography and screen process printing. Lecture 1 hour, laboratory 4 hours. Prerequisite: Art 3063.
- 4232 **ART FOR ELEMENTARY TEACHERS, 2 hours credit**  
Studio experiences with two-dimensional and three-dimensional materials toward understanding the visual arts as background for teaching in the elementary schools. Laboratory 4 hours per week. Prerequisite: Art 1223.
- 4243 **ADVANCED PAINTING II, 3 hours credit**  
Advanced painting in media and subject matter decided in conference between student and instructor. Prerequisite: Art 3233.
- 4253 **MIXED MEDIA, 3 hours credit**  
An advanced studio course in which students use a combination of materials in two and three dimensional forms. Prerequisite: Art 3233. Laboratory 6 hours.

- 4333 **HISTORY OF AMERICAN ART, 3 hours credit**  
A survey of American art from the colonial period to the present. Lecture with visual aids, 3 hours per week.
- 4343 **HISTORY OF CONTEMPORARY ART, 3 hours credit**  
A study of 20th century painting, sculpture, and architecture. Lecture with visual aids, 3 hours per week.
- 4433 **SCULPTURE III, 3 hours credit**  
A studio course in special problems exploring sculptural techniques and materials. Laboratory 6 hours. Prerequisite: Art 3432 or departmental permission.
- 4443 **SCULPTURE IV, 3 hours credit**  
A studio course emphasizing individual problems and experimental work in the technical and aesthetic problems of sculptural design. Prerequisite: Art 4433.

## BIOLOGICAL SCIENCES

Doyle McCoy, Professor and Department Chairman  
 Associate Professors: Cooper, Epperson, Hopkins, Tyler;  
 Assistant Professors: Anderson, Harmon, Netherland, Orr, Ziegler.

## Biology

- 1005 **GENERAL BIOLOGY, 5 hours credit**  
 Laboratory centered course offered each semester. One cell animals to complex animals, including man; one cell plants to multicellular plants. The economic value of the study of the biological world as it pertains to man, his problems, his progress as well as his place in society is a foremost factor in this course. Lecture and laboratory 5 hours.
- 2001 **GENETICS, 1 hour credit**  
 Laboratory to accompany Genetics 2003 for majors. Experiments with fruit flies, bacteria, and fungi to verify and illucidate the theory. Laboratory 2 hours.
- 2003 **PRINCIPLES OF GENETICS, 3 hours credit**  
 A general course in the fundamental principles of heredity with emphasis on human genetics. Lecture 3 hours.
- 2024 **COMPARATIVE VERTEBRATE ANATOMY, 4 hours credit**  
 Morphological comparisons of the vertebrate classes with emphasis on evolutionary relationships of major systems. The course will fulfill the needs of pre-professionals and biology majors. Lecture 3 hours, laboratory 6 hours. Prerequisites: Zoology 1114 and sophomore standing.
- 2034 **BACTERIOLOGY, 4 hours credit**  
 A general course in microbiology stressing techniques and applied theory. Lecture 3 hours, laboratory 3 hours.
- 2124 **MICROBIOLOGY, 4 hours credit**  
 A beginning course in microbiology emphasizing the molecular concepts of the biochemistry, physiology and genetics of bacteria. Also includes a survey of the kingdom. Laboratory experience provides data supporting the theory. Lecture 2 hours, laboratory 4 hours. Prerequisite: Botany 1114.
- 3004 **PHYCOLOGY, 4 hours credit**  
 Morphology, classification and ecology of the fresh water algae. Lecture 3 hours, laboratory 3 hours and field trips. Prerequisite: Botany 1214.
- 3013 **ENVIRONMENT AND MAN, 3 hours credit**  
 Designed for non-biologists. Principles of ecology and their application to such problems as pollution, human population growth and land use planning. The interdependence of fields of human endeavor affecting the environment. This course may not be credited toward a biology major. Lecture, discussion and local field trips. Prerequisite: one course in biology and sophomore standing.
- 3024 **GENERAL ENTOMOLOGY, 4 hours credit**  
 Structure, life history, habit and recognition of common insects. Lecture 3 hours, laboratory 2 hours, field trips. Prerequisite: 8 hours of Biological Sciences.

- 3034 **GENERAL EMBRYOLOGY, 4 hours credit**  
The development of the vertebrate body from gametogenesis through early organ formation. Primary emphasis on development of fish, frog, chick and pig. Lecture 3 hours, laboratory 3 hours. Prerequisite: Biology 2024 or concurrent enrollment.
- 3054 **PLANT TAXONOMY, 4 hours credit**  
Classification of flowering plants with emphasis on the flora of the area. Lecture 3 hours, laboratory 2 hours, and field trips. Prerequisite: Botany 1114.
- 3064 **GENERAL ECOLOGY, 4 hours credit**  
General principles of biotic and abiotic interrelationships including sampling techniques, productivity, energy flow, interspecific associations and biomes. Field trips arranged. Lecture 3 hours, laboratory 3 hours. Prerequisite: Junior standing.
- 3074 **NATURAL HISTORY OF THE VERTEBRATES, 4 hours credit**  
Ecology, Taxonomy, and life histories of vertebrates. Lecture 3 hours, laboratory 3 hours. Field trips arranged. Prerequisite: Zoology 1114.
- 3084 **ORNITHOLOGY, 4 hours credit**  
Identification, ecology, distribution and population dynamics of birds, with emphasis on locally occurring species. Family and ordinal characters are stressed. Lecture 3 hours, laboratory 3 hours. Field trips arranged. Prerequisite: Zoology 1114 or permission.
- 3104 **LABORATORY AND FIELD BIOLOGY FOR ELEMENTARY TEACHERS, 4 hours credit**  
Designed for elementary majors. Emphasis on biology as a science and application to local organisms. Lecture, discussion, experiments, laboratory and local field trips. Not available to biology majors. Prerequisite: one course in general biology, or general botany and general zoology.
- 3114 **MAMMALOLOGY, 4 hours credit**  
Methods of collection and preservation. Classification, life histories, and distribution of mammals. Lecture 3 hours, laboratory 3 hours. Field trips arranged. Prerequisite: Biology 2024 or permission of department.
- 3123 **GENERAL HISTOLOGY, 3 hours credit**  
Structure of animals at tissue and organ levels with emphasis on recognition and function of mammalian tissues and organs. Lecture 2 hours, laboratory 3 hours. Prerequisite: 8 hours of Biology.
- 4004 **PHYSIOLOGY, 4 hours credit**  
General Physiology. Homeostatic mechanisms of organ systems including cellular respiration and energy transfer. Lecture 3 hours, laboratory 3 hours. Prerequisite: Organic Chemistry, 8 hours of Biology.
- 4024 **ICHTHYOLOGY, 4 hours credit**  
Taxonomy, morphology and ecology of fishes, with emphasis on those of the area. Field trips. Lecture 3 hours, laboratory 3 hours. Prerequisite: 8 hours of Zoology.
- 4044 **GENERAL CYTOLOGY, 4 hours credit**  
A general course in the study of cell structure and function. Microscopic and cytochemical techniques will be presented in the laboratory. Lecture 3 hours, laboratory 3 hours. Prerequisite: 8 hours of Biology.
- 4054 **VASCULAR AQUATIC PLANTS, 4 hours credit**  
Taxonomy and ecology of the fresh water vascular plants. Lecture 3 hours, laboratory 3 hours. Prerequisite: Botany 1114. Field trips required.

**ADVANCED ECOLOGY, 4 hours credit**  
Ecological principles as related to population dynamics, ecosystems, effects of radiation and pollution. Emphasis on production, energy flow, and cycling within ecosystems. Lecture 3 hours, laboratory 3 hours. Field trips arranged. Prerequisite: Biology 3064.

**COMPARATIVE ETHOLOGY, 4 hours credit**  
Behavioral adaptations of diverse animal species. Emphasis is placed on the ecological, physiological, and evolutionary aspects of behavior. Lecture 3 hours, laboratory 3 hours. Prerequisite: 8 hours of Zoology or permission of department.

**LIMNOLOGY, 4 hours credit**  
An introduction to the biological, chemical, and physical features of freshwater lakes, ponds, and streams, with emphasis on methods. Lecture 3 hours, laboratory 3 hours, field trips. Prerequisite: 12 hours of Biology, 10 hours of Chemistry and permission.

**SPECIAL STUDIES, 1 to 4 hours credit**  
Term paper and oral examination required. Laboratory may be required. Prerequisite: 8 hours of Biology.

**TEACHING OF BIOLOGY, 2 hours credit**  
Methods and materials in secondary education. Lecture 2 hours. Prerequisite: Approval of instructor and advisor.

### Botany

**GENERAL BOTANY, 4 hours credit**  
An introduction to the structure, life process and reproduction of the seed-bearing plants and their relations to the environment. Lecture 3 hours, laboratory 2 hours.

**GENERAL BOTANY II, 4 hours credit**  
Plant kingdom. A survey of the entire plant kingdom from the simplest to the highest seed-bearing plants stressing life histories, relationships, origin, and evolution of the plant kingdom. Lecture 3 hours, laboratory 2 hours. Prerequisite: Botany 1114.

### Zoology

**GENERAL ZOOLOGY, 4 hours credit**  
A survey and classification of the animal kingdom stressing the animals from the simple to the complex; to develop an appreciation of animal life as it relates to human understanding and welfare. Lecture 3 hours, laboratory 2 hours.

**HUMAN ANATOMY AND PHYSIOLOGY, 4 hours credit**  
Introductory Anatomy and Physiology. Emphasis on homeostatic mechanisms, histology, and gross anatomy. Nervous system and endocrines, skeletal and connective tissue frame work, muscles and energy transfer, circulation and respiration, digestion, reproduction and prenatal development. Lecture 3 hours, laboratory 3 hours. Prerequisite: Permission of the instructor.

**INVERTEBRATE ZOOLOGY, 4 hours credit**  
Morphology, taxonomy, natural history, and evolutionary relationships of the invertebrates. Lecture 3 hours, laboratory 3 hours. Prerequisite: Zoology 1114.

## BUSINESS

Jack Amyx, Associate Professor and Department Chairman  
 Professor: Farrar;  
 Associate Professor: Lair;  
 Assistant Professors: Brooks, Cosgrove, Dobbs, Hogan,  
 Jeter, Martinez, Van Rest, McClung, Seymour;  
 Instructors: Givens, Sosnow, Stevens.

### Accounting

- 2013 **PRINCIPLES OF ACCOUNTING I, 3 hours credit**  
 Basic principles of accounting, including use of journals, ledgers, controlling accounts, work sheets, and financial statements. Lecture, 3 hours. Prerequisite: sophomore standing or by consent of Department Chairman.
- 2023 **PRINCIPLES OF ACCOUNTING II, 3 hours credit**  
 Continuation of theory presented in Principles of Accounting 2013, with special emphasis on partnerships, corporations, bonds, sinking funds, reserve depreciation and problems of valuation. Lecture 3 hours. Prerequisite: Accounting 2013.
- 3013 **INTERMEDIATE ACCOUNTING I, 3 hours credit**  
 A review of the fundamental processes of accounting with an emphasis on the basic accounting process, procedures and working papers, statements, cash receivable, liabilities, and inventory pricing and planning. Lecture 3 hours. Prerequisite: Accounting 2023.
- 3023 **INTERMEDIATE ACCOUNTING II, 3 hours credit**  
 Continuation of Intermediate Accounting 3013, with emphasis on corporation capital stock, retained earnings, dividends, income taxes, and analysis and interpretation of accounting data. Lecture 3 hours. Prerequisite: Accounting 3013.
- 3133 **COST ACCOUNTING I, 3 hours credit**  
 Basic principles of cost accounting; departmentalization, expense allocation, process and job-lot finding, distribution costs, profit-volume relationships and direct costing. Lecture 3 hours. Prerequisite: Accounting 2023.
- 3143 **COST ACCOUNTING II, 3 hours credit**  
 Continuation of Cost Accounting I with emphasis on the planning, control, and analytical process of cost accounting. Lecture 3 hours. Prerequisite: Accounting 3133.
- 4013 **INCOME TAX ACCOUNTING, 3 hours credit**  
 Consideration of present income tax laws, tax problems, preparation of tax returns for individuals. Lecture 3 hours. Prerequisite: 12 hours of accounting.
- 4113 **ADVANCED ACCOUNTING THEORY I, 3 hours credit**  
 Partnership accounting, consignment accounts, installment sales and consolidated statements. Lecture 3 hours. Prerequisite: Accounting 3023.
- 4123 **ADVANCED ACCOUNTING THEORY II, 3 hours credit**  
 Trustee accounting, branch accounting, application of funds, foreign exchange actuarial accounting. Prerequisite: Accounting 4113.

- 4213 **AUDITING, 3 hours credit**  
Auditing theory, auditing procedures and techniques. Lecture 3 hours.  
Prerequisite: 18 hours of accounting.

### Business

- 2113 **BUSINESS COMMUNICATIONS, 3 hours credit**  
Essential qualities of business writing; managerial approach in writing a variety of letter types; relationship of external structure and layout to effective business writing. Lecture 3 hours. Prerequisite: English 1213 or the equivalent and Typ. 1003 or equivalent.
- 2643 **INSURANCE, 3 hours credit**  
Basic principles of life, marine, casualty, and fire insurance; the business and personal uses of insurance, and the analysis of insurance policies. Prerequisite: Departmental permission.
- 2813 **FUNDAMENTALS OF REAL ESTATE, 3 hours credit**  
Basic principles with elementary discussions of title and transfer, value, liens, financing, taxes. Professional ethics of the Real Estate Business. Forty-five clock hours of instruction. Prerequisite: Economics 2013 or permission.
- 3023 **REPORT WRITING, 3 hours credit**  
Formal and informal reports with emphasis on problem area selection, the gathering of data, the organizing of data, and the writing of the report; style, format, language and tone. Lecture 3 hours. Prerequisite: Business Communications 2113.
- 3213 **BUSINESS LAW I, 3 hours credit**  
Introductory course dealing with the legal principles of contracts, negotiable instruments, agency and employment. Lecture 3 hours.
- 3223 **BUSINESS LAW II, 3 hours credit**  
A continuation of Business Law I. The course emphasizes bailments, sales, real and personal property, partnerships, and corporations. Lecture, 3 hours. Prerequisite: Business Law 3213.
- 3413 **PRINCIPLES OF MARKETING, 3 hours credit**  
A basic course utilizing a managerial approach to the study and development of marketing with emphasis on marketing strategy and development of marketing mix. Lecture 3 hours. Prerequisite: Junior standing or Department permission.
- 3433 **RETAIL MANAGEMENT, 3 hours credit**  
Designed to assist students seeking a general knowledge of the retail field. Principles and methods of organizing and operating a retail firm with particular emphasis on store layout, buying, pricing, sales promotion, control of stock, and evaluation. Lecture 3 hours. Prerequisites: Business 3413 and Management 3013.
- 3603 **PRINCIPLES OF FINANCE, 3 hours credit**  
A basic course on financial structure; sources, acquisition and management of short-term and long-term funds in both the money and capital markets; money market instruments; the comparative evaluation of corporate capital structure in terms of risk, control and flexibility. Lecture 3 hours. Prerequisite: Economics 2023 and Accounting 2023.
- 3613 **QUANTITATIVE ANALYSIS I, 3 hours credit**  
An introduction to quantitative tools used in business analysis. Measures of central tendency, dispersion, uncertainty, statistical inference, and sampling are covered, as well as regression and correlation, time series analysis, index numbers, and seasonal-cyclical variations. Lecture 3 hours. Prerequisite: Mathematics 1913.



- 3623 **INVESTMENTS, 3 hours credit**  
An introduction to the appraisal of securities and the management of investment funds with stress on the principles of value determination, on the risks associated with investment in the various types of securities, and on the concepts of asset and portfolio management. Lecture 3 hours. Prerequisite: Business 3603, or departmental permission.
- 3880-4 **WORKSHOP, 0 to 4 hours credit**  
A course designed to emphasize specific Business and/or Economic topics. Combines the use of lectures and practical application exercises. May be repeated for a maximum of 6 credit hours. Prerequisite: Junior standing and permission of Department Chairman if taken for credit; permission of Department Chairman if taken for no credit.
- 4023 **QUANTITATIVE ANALYSIS II, 3 hours credit**  
A continuation of Quantitative Analysis I with an emphasis on inference, analysis of variance, non-parametric statistics, multiple regression and correlation, linear programming, Markov analysis, queuing theory, and inventory control. Lecture 3 hours. Prerequisite: Business 3613.
- 4333 **FINANCIAL ANALYSIS, 3 hours credit**  
A detailed examination of financial management and the uses of short-term and long-term funds. Includes financial control, cash and securities management, and long-term capital allocation. Lecture 3 hours. Prerequisite: Business 3603.
- 4433 **ADVERTISING, 3 hours credit**  
A survey of the various advertising media; planning and evaluating advertising materials. Lecture 3 hours. Prerequisite: Senior standing or permission.
- 4471-3 **SEMINAR IN BUSINESS, 1 to 3 hours credit**  
Group projects designed to meet special needs of students in any of the disciplines of the Business Department. Prerequisite: Permission of Department Chairman.
- 4491-3 **INDEPENDENT STUDY IN BUSINESS, 1 to 3 hours credit**  
Independent readings and/or study of specific problems or special subjects, based on pre-approved outlines of plans, with conferences and/or written reports. Prerequisite: Nine upper-division hours in the discipline of the independent study and permission of the Department Chairman.
- 4633 **BUSINESS POLICY, 3 hours credit**  
A capstone course designed to integrate earlier studies in business administration into a viable, realistic approach to business problems. Emphasis is on comprehensive case studies and simulation gaming as student participate in applying principles, practices, and techniques to complex problems at the executive level. Lecture 3 hours. Prerequisites: Business 3603 and Senior standing.
- 4772 **METHODS OF TEACHING BUSINESS SUBJECTS, 2 hours credit**  
Content, objectives, materials, specific methods as they apply to the skills and non-skill areas of business curriculum. Lecture 2 hours. Prerequisite: Senior standing.

### Economics

- 1013 **ECONOMIC HISTORY OF UNITED STATES, 3 hours credit**  
A survey of the economic development of the United States from early colonial economics through frontier stages to the present day mass industrial complexes. Lecture 3 hours.

- 013 **PRINCIPLES OF ECONOMICS I, 3 hours credit**  
An introduction to, and an analysis of, the general concepts of the American capitalistic system; supply and demand; the determinants of the level of total output, employment, and prices; monetary policy; and American economic growth policies.
- 2023 **PRINCIPLES OF ECONOMICS II, 3 hours credit**  
A continuation of Economics 2013 with analysis of the concepts of allocation of resources to the firm and the distribution of final output to the individual; domestic economic problems of agriculture, unions, monopoly, and social goods; international trade and payments; and foreign economics. Prerequisite: Economics 2013.
- 3013 **MICRO ECONOMIC THEORY, 3 hours credit**  
An analysis of the over-all functioning of the price system and of the modern business firm in a private enterprise, market-type economy. The relation of price, quantity, and profit under competition and imperfect competition. Prerequisite: Economics 2023.
- 3023 **MACRO ECONOMIC THEORY, 3 hours credit**  
National income concepts; aggregate demand by household, business, government, and foreign sectors; determination of national income, interest rate, prices, output, and employment levels. Prerequisite: Economics 2023.
- 3313 **MONEY AND BANKING, 3 hours credit**  
Historical survey of money and the evolution of banking; organization and the operation of banks, monetary theory and markets, and the functions of the Federal Reserve Systems. Lecture 3 hours. Prerequisite: Economics 2023.
- 3433 **LABOR PROBLEMS, 3 hours credit**  
Problems of labor in an industrial society, wages, hours, working conditions, conflicts between management and labor, principles of labor law. Lecture 3 hours. Prerequisite: Economics 2023.
- 4213 **URBAN ECONOMIC PROBLEMS, 3 hours credit**  
A study of the nature and the direction of growth of urban economies; intra-metropolitan development and land use; and the relationship between urban governments and such problems as housing, transportation, and commercial and industrial development. Lecture 3 hours. Prerequisite: Economics 3013.
- 4413 **COMPARATIVE SYSTEMS, 3 hours credit**  
Comparative analysis of the economic theory and institutions of capitalism, socialism, communism, and fascism. Lecture 3 hours. Prerequisite: Economics 2023.

### Management

- 3013 **PRINCIPLES OF MANAGEMENT, 3 hours credit**  
An introductory management course dealing with the fundamental principles of management; planning, organizing, and controlling. Lecture 3 hours. Prerequisite: Junior standing or permission.
- 3513 **PERSONNEL MANAGEMENT, 3 hours credit**  
A foundation course in the principles and practices of personnel management. Organization and operation of the personnel function. Consideration of key personnel problems in the area of procurement, placement, training, promotion, remuneration, and separation. Lecture 3 hours. Prerequisite: Management 3013 or departmental permission.

- 3543 **SUPERVISORY MANAGEMENT, 3 hours credit**  
Techniques and methods of first-line supervision with emphasis on the recognition and resolution of problems arising from legal constraints, manpower requirements, employe behavior and other environmental problems. Lecture 3 hours. Prerequisite: Management 3513.
- 3533 **SALES MANAGEMENT, 3 hours credit**  
Problems of organization; planning and control of sales; formulation of sales policies and the operation of a sales force. Using the principles of selling along with supervising a sales program. Lecture 3 hours. Prerequisite: Management 3013.
- 3613 **PRODUCTION MANAGEMENT, 3 hours credit**  
A study of the manufacturing process emphasizing the planning of production facilities, quality control systems, and production control systems. Lecture 3 hours. Prerequisite: Management 3013.
- 3713 **PUBLIC ADMINISTRATION, 3 hours credit**  
An introductory course to acquaint students with the applications of relevant management theory and tools of analysis to the problems of non-profit organizations. Topics include systems analysis, program-budgeting systems, and cost-benefit analysis. Problems and examples are drawn from government, military, and educational organizations. Lecture 3 hours. Prerequisite: Management 3013.
- 4013 **ORGANIZATIONAL BEHAVIOR, 3 hours credit**  
Concerns the application of knowledge relating to human behavior theory as it applies to the business environment. Includes motivation theory, leadership patterns, organization climate, interpersonal relations, intergroup behavior, etc. Emphasis is on behavioral research findings. Lecture 3 hours. Prerequisite: Management 3513.
- 4023 **PROBLEMS OF ADMINISTRATION, 3 hours credit**  
Judgment in practical applications of management principles, with emphasis on the situational approach in integrating people and production-oriented problems. Lecture 3 hours. Prerequisite: 9 hours of management including Management 3513.
- 4033 **SMALL BUSINESS MANAGEMENT, 3 hours credit**  
Designed as an internship program to involve the student in identifying problems and recommending solutions in actual business situations. Lecture 3 hours. Prerequisites: Business 3603, Senior standing, and permission of Department Chairman.

### Office Administration

- 1213 **BUSINESS COMPUTATIONS, 3 hours credit**  
Business applications of basic mathematics, including the utilization of calculators and adding machines. (Recommended for students in the Office Administration and Business Education fields.) Lecture 3 hours.
- 3013 **OFFICE PROCEDURES, 3 hours credit**  
Information on basic office services. Subjects include office communication, duplication, records management, mail and shipping procedures, public relations duties, office equipment and supplies. Lecture 3 hours. Prerequisite: Typewriting 1003.

- 3112 **SECRETARIAL PROCEDURES, 2 hours credit**  
 Pertaining to the duties and responsibilities of an executive secretary or administrative assistant. Case studies and realistic office problems serve to acquaint students with proper procedures. Lecture 2 hours. Prerequisite: Office Administration 3013.
- 3123 **OFFICE MANAGEMENT, 3 hours credit**  
 Instruction pertaining to office organization, planning and control. Covers the basic responsibilities and problems of the Office Manager. Lecture 3 hours. Prerequisite: Junior standing.

### Shorthand

- 1013 **BEGINNING SHORTHAND, 3 hours credit**  
 Fundamental principles of shorthand followed by simple dictation of vocabulary and letter material. Credit will not be allowed to students presenting high school credit in shorthand except by special permission of the instructor and the Chairman of the Department. Class 5 hours.
- 1023 **INTERMEDIATE SHORTHAND, 3 hours credit**  
 A continuation of beginning shorthand with study of the advanced principles of shorthand and advanced letter writing. (Students presenting two years of high school shorthand will not receive credit except by recommendation of the instructor and approval of the Chairman of the Department.) Class 4 hours. Prerequisite: Shorthand 1013 or equivalent.
- 2112 **TRANSCRIPTION, 2 hours credit**  
 Emphasis on transcription and dictation with speeds varying from 90 to 120 words per minute. Students must concurrently enroll in Dictation 2114. Class 2 hours. Prerequisite: Shorthand 1023.
- 2114 **DICTATION, 4 hours credit**  
 Skill building in dictation with emphasis on increased speed. Students must take Dictation 2113 concurrently with Transcription 2112. Class 4 hours. Prerequisites: Typewriting 2013 and Shorthand 1023.
- 3113 **ADVANCED DICTATION, 3 hours credit**  
 Development of advanced skill in dictation and transcription. Technical dictation of a varied nature. Class 3 hours. Prerequisites: Dictation 2114 and Transcription 2112.

### Typewriting

- 1003 **BEGINNING TYPEWRITING, 3 hours credit**  
 A course for beginning students in typewriting; covers mastery of keyboard skill development, and practice in typewriting letters and simple reports. Students presenting one year of high school typewriting will not receive credit except by recommendation of the instructor and approval of the Chairman of the Department. Class 5 hours. (Offered during the evening only).
- 2013 **INTERMEDIATE TYPEWRITING, 3 hours credit**  
 Development of skill in the practical application of typewriting. Assignments consist of letter formats, tabulated material, manuscripts, rough drafts, business forms, and additional related business materials. Students presenting two years of high school shorthand will not receive credit except by recommendation of the instructor and approval by the Chairman of the Department. Class 3 hours. Prerequisite: Typewriting 1003 or one year of high school typewriting.

- 3003 **ADVANCED TYPEWRITING, 3 hours credit**  
Further practice in the application of typewriting skills with emphasis on production typewriting. Statistical reports, legal documents, and letter writing comprise the routine situations. Lecture 3 hours. Prerequisite: Typewriting 2013 or two years of high school typewriting.

## EDUCATION AND PSYCHOLOGY

Ward Williams, Professor and Department Chairman

Professor: Owen;

Associate Professors: Bruce, McKellips, Parker, Prichard, Tyson;

Assistant Professors: James, Mann, Smith, Tyson, White;

Instructors: Carothers, Rubin.

### Education

- 2003 **INTRODUCTION TO TEACHING, 3 hours credit**  
An orientation course in education prerequisite to all other professional education courses. Introduces students to the place of education in a democratic society, and to the basic principles and techniques of teaching; the scope and organization of the public school system in the U. S., and the place of the teacher in the school and community. Lecture 3 hours. Prerequisite: Sophomore or higher standing.
- 3002 **THE EXCEPTIONAL CHILD, 2 hours credit**  
Orientation of elementary and secondary teachers to the characteristics, problems, and special needs of exceptional children. Includes information regarding the identification of exceptional children, methods for teaching exceptional children, and sources of referral and assistance to teachers. Lecture 2 hours. Prerequisite: Psychology 1113 and Education 2003.
- 3012 **HISTORY AND PHILOSOPHY OF EDUCATION IN THE UNITED STATES, 2 hours credit**  
A survey of the development of education from the earliest time until the present, with special emphasis upon the meaning of education including an evaluation of its aims, ideals, and objectives and their bearing on the offerings of our public schools. Lecture 2 hours.
- 3143 **METHODS AND MATERIALS IN ELEMENTARY LANGUAGE ARTS, 3 hours credit**  
Methods and techniques of teaching developmental skills in listening, speaking, writing, and spelling in the elementary grades. Lecture 3 hours. Prerequisites: Education 2003, Psychology 3343.
- 3153 **READING INSTRUCTION I, 3 hours credit**  
Principles and practices of teaching reading grades K through 3 with emphasis upon the development of reading readiness and beginning reading skills. Prerequisite: Education 2003.
- 3253 **READING INSTRUCTION II, 3 hours credit**  
Principles and practices of teaching reading grades 4 through 8 with emphasis upon vocabulary development, reading-study skills, and reading in the content fields. Prerequisite: Education 3153.
- 3162 **METHODS AND MATERIALS IN ELEMENTARY ARITHMETIC, 2 hours credit**  
The development of mathematical concepts and skills necessary to the understanding and social application of elementary school arithmetic; emphasis is placed on the content, methods, and materials associated with a contemporary approach to mathematics. Lecture 2 hours. Prerequisites: Education 2003, Psychology 3343; also recommended Mathematics 3353.

- 3172 **METHODS AND MATERIALS IN ELEMENTARY NATURAL SCIENCE, 2 hours credit**  
A survey of elementary science content and materials; including the exploration and evaluation of organizational programs; and laboratory experiences in developing effective teaching methods. Lecture 2 hours. Prerequisites: Education 2003, Psychology 3343.
- 3182 **METHODS AND MATERIALS IN ELEMENTARY SOCIAL STUDIES, 2 hours credit**  
Materials, procedures, and functions of teaching the social studies in the elementary grades. Lecture 2 hours. Prerequisites: Education 2003, Psychology 3343, and approval from the Department of Education.
- 3880-2 **WORKSHOP, 0-2 hours credit**  
Course designed to give intensive emphasis to a specific topic(s) relating to elementary and/or secondary education. May be repeated for a maximum of 4 hours credit. Prerequisite: Junior standing and permission.
- 4001 **OBSERVATION OF ELEMENTARY AND SECONDARY SCHOOL STUDENTS, 1 hour credit**  
Opportunity is provided for directed observation of the child and/or the adolescent. Two laboratory periods per week or equivalent. Prerequisites: Education 2003, junior standing or above, and approval from the Department of Education.
- 4032 **TESTS AND MEASUREMENTS, 2 hours credit**  
Uses and construction of educational tests and measurements for the purposes of classification of students and determination of their achievement in subjects studied in public schools. Lecture 2 hours. Prerequisite: Education 2003 and approval from the Department of Education.
- 4114 **\*DIRECTED OBSERVATION AND STUDENT TEACHING IN THE ELEMENTARY SCHOOL, 4 hours credit**  
(For students who are majoring in Art, in Music and in Health and Physical Education. Those enrolling in this course must concurrently enroll in Education 4124.)
- 4118 **\*DIRECTED OBSERVATION AND STUDENT TEACHING IN THE ELEMENTARY SCHOOL, 8 hours credit**  
(For Elementary Education majors)
- 4124 **\*DIRECTED OBSERVATION AND STUDENT TEACHING IN THE SECONDARY SCHOOL, 4 hours credit**  
(For students who are majoring in Art, in Music and in Health and Physical Education. Those enrolling in this course must concurrently enroll in Education 4114.)
- 4128 **\*DIRECTED OBSERVATION AND STUDENT TEACHING IN THE SECONDARY SCHOOL, 8 hours credit**  
(For Secondary Education majors)
- 4153 **DIAGNOSIS AND REMEDIATION OF READING DIFFICULTIES, 3 hours credit**  
A study of methods of diagnosis of reading difficulties and techniques of remediation of such difficulties. Includes supervised work with a child with reading problems. Prerequisites: Education 3253 and approval of the department.
- 4232 **AUDIO-VISUAL EDUCATION, 2 hours credit**  
Techniques in the selection, use, and production of teaching aids; with practice in using audio-visual equipment. Prerequisite: Education 2003 and approval from the Department of Education.

252 **PRINCIPLES OF SECONDARY EDUCATION, 2 hours credit**  
 Organization and function of secondary education; principle factors and techniques that have general application to teaching. Lecture 2 hours. Prerequisites: Education 2003, Psychology 3323.

**\*OBSERVATION AND STUDENT TEACHING**

Observation, participation and teaching, and the directing of extraclass group activities under the guidance of a selected classroom teacher. Prerequisites: Nine hours of professional education and admission to student teaching. A sufficient amount of advanced work in teaching fields must be done in residence at Cameron to provide a basis for the evaluation of readiness for student teaching. Student teaching is offered to seniors in fall and spring semesters.

### Psychology

- 1113 **GENERAL PSYCHOLOGY, 3 hours credit**  
 A study of the basic facts and principles of behavior. Lecture 3 hours.
- 3323 **PSYCHOLOGY OF ADOLESCENCE, 3 hours credit**  
 A study of physical, mental, social, and emotional development of the individual through youth to maturity; observation of adolescents is given attention. Prerequisite: Psychology 1113.
- 3343 **PSYCHOLOGY OF CHILDHOOD, 3 hours credit**  
 Intensive study of childhood, with observation of child behavior. Prerequisite: Psychology 1113.
- 3352 **EDUCATIONAL PSYCHOLOGY, 2 hours credit**  
 Introduction to the science of education; application of the methods and results of experimental psychology to the problems of training children. Prerequisite: Psychology 3323 or 3343, Education 2003, and approval from the Department of Education.
- 3363 **ABNORMAL PSYCHOLOGY, 3 hours credit**  
 The study of various abnormalities in human behavior with emphasis on the psychoses and neuroses. Prerequisite: Nine hours of Psychology.
- 3383 **SOCIAL PSYCHOLOGY, 3 hours credit**  
 The study of human behavior as affected by social stimuli. Prerequisite: Nine hours of Psychology.
- 3393 **PERSONALITY, 3 hours credit**  
 Emphasis on factors determining and affecting personality, its development and assessment. Lecture, discussion, library research and field trips. Prerequisite: Psychology 3363.



## HEALTH AND PHYSICAL EDUCATION

Bill Shahan, Assistant Professor and Department Chairman

Assistant Professors: Jensen, Lavender, Nichols,  
Maples, Miller, Wilson;

Instructors: Flood, Munzinger, Nichols, Jones, Robinson, Spears.

### Health

- 1052 PERSONAL AND COMMUNITY HEALTH, *2 hours credit*  
Problems and practices concerning personal and community health. Lecture 2 hours.
- 2212 FIRST AID, *2 hours credit*  
Immediate and temporary treatment for accidental injuries and sudden illness. Lecture 2 hours.
- 2281 INSTRUCTOR'S COURSE IN FIRST AID, *1 hour credit*  
Course content is sufficient to prepare for the American Red Cross Instructor's rating and presents methods and materials for teaching Standard and Advanced First Aid. Lecture 1 hour. Prerequisite: Current advanced rating in First Aid.
- 3012 INDIVIDUAL CORRECTIVES, *2 hours credit*  
Methods of corrective exercises for individuals and groups. Lecture 2 hours.
- 3292 CARE OF ATHLETIC INJURIES, *2 hours credit*  
Methods of caring for injuries to athletes. Lecture 2 hours.
- 3244 APPLIED ANATOMY AND KINESIOLOGY, *4 hours credit*  
The study of the mechanical and anatomical functions of human motion. (May not be used as a Biology course.) Lecture 4 hours.

### Health and Physical Education Theory

- 2322 INTRODUCTION TO HEALTH, PHYSICAL EDUCATION AND RECREATION, *2 hours credit*  
A foundational approach to interpretations and objectives of Health, Physical Education and Recreation, with information on career opportunities and the necessary qualifications. Designed to assist the major in developing a sound philosophic background for continued growth in the professional field. Lecture 2 hours. Recommended for Freshmen and Sophomore Majors.)
- 3051 OFFICIATING WOMEN'S SPORTS, *1 hour credit*  
Considers general principles and philosophy of officiating, with a study of knowledge and interpretation of sports rules as well as practice in techniques and mechanics of officiating in women's Individual and Team Sports. Lecture 1 hour.
- 3052 SPORTS OFFICIATING, *2 hours credit*  
Considers general principles and philosophy of officiating, with a study of knowledge and interpretation of sports rules as well as practice in techniques and mechanics of officiating. Lecture 2 hours.
- 3332 PHYSICAL EXAMINATION AND MEASUREMENTS, *2 hours credit*  
Methods in techniques of examination; forming and keeping records; elementary physical diagnosis. Lecture 2 hours.

- 3352 **PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL**, *2 hours credit*  
Program and management of games for children of elementary school age; simple dramatics; playground and gymnasium activities. Lecture 2 hours.
- 3362 **PHYSICAL EDUCATION IN THE JUNIOR AND SENIOR HIGH SCHOOL**, *2 hours credit*  
Planning and management of activities with organization and practice in teaching of games and sports. Lecture 2 hours.
- 3363 **COMMUNITY AND RECREATIONAL LEADERSHIP**, *3 hours credit*  
Introductory course in the history, philosophy, organization, management, and materials of community and private recreation. Rating in the Campcraft course of the American Camping Association may be earned. Lecture 3 hours.
- 4003 **ORGANIZATION AND ADMINISTRATION OF HEALTH, PHYSICAL EDUCATION AND INTERSCHOLASTIC ATHLETICS**, *3 hours credit*  
A study of the organization and administration of physical education programs for the public school, with special attention to the problems involved in the direction of high school athletics. Lecture 3 hours.
- 4222 **ORGANIZATION AND MANAGEMENT OF INTRAMURALS**, *2 hours credit*  
Intramural programs; evaluation of activities, use of test in forming competitive groups. Lecture 2 hours.
- 4232 **PRINCIPLES AND HISTORY OF HEALTH AND PHYSICAL EDUCATION**, *2 hours credit*  
A study of the basic concepts in the field of health, physical education, recreation, and their origins. Lecture 2 hours.
- 4252 **THEORY OF TEACHING INDIVIDUAL SPORTS FOR GIRLS**, *2 hours credit*  
Organizing and teaching individual sports; techniques of officiating; tournament organizations. Lecture 2 hours.
- 4532 **THEORY OF TEACHING GIRLS TEAM SPORTS**, *2 hours credit*  
Problems in teaching team sports, rule interpretations, organizing and conducting team sports meets, officiating in team games. Lecture 2 hours.
- 4542 **THEORY OF COACHING TRACK AND FIELD**, *2 hours credit*  
A study of the techniques of coaching track and field. Lecture 2 hours.
- 4552 **THEORY OF COACHING OFFENSIVE FOOTBALL**, *2 hours credit*  
A study of the techniques of coaching offensive football. Lecture 2 hours.
- 4562 **THEORY OF COACHING DEFENSIVE FOOTBALL**, *2 hours credit*  
A study of the techniques of coaching defensive football. Lecture 2 hours.
- 4572 **ADVANCED THEORY OF COACHING FOOTBALL**, *2 hours credit*  
An intensive study of modern techniques of coaching football. Lecture 2 hours.
- 4582 **THEORY OF COACHING BASKETBALL**, *2 hours credit*  
A study of the techniques of coaching basketball. Lecture 2 hours.

- 4592 **THEORY OF COACHING BASEBALL, 2 hours credit**  
A study of the techniques of coaching baseball. Lecture 2 hours.
- 4772 **METHODS OF TEACHING PHYSICAL EDUCATION, 2 hours credit**  
Problems and methods in the teaching of Physical Education. Lecture 2 hours.
- 4781-4 **SPECIAL STUDIES, 1 to 4 hours credit**  
Directed independent study in selected areas of Health, Physical Education and Recreation through research, observation, and/or on-the-job internship. May be repeated. Prerequisite: Junior standing and departmental permission.

### Physical Education Activity

- 1002 **LIFE TIME SPORTS, 2 hours credit**  
Development and practice in a variety of individual and dual sports skills that will contribute to the enjoyment and life-time participation of sports. Laboratory 2 hours.
- 1021 **TEAM SPORTS, 1 hour credit**  
Fundamentals of Basketball, Football, Soccer, Speedball, Softball, and Volleyball. Four to five of these sports are incorporated in the class with instruction and practice in basic skills followed by participation as a member of a team. Laboratory 2 hours.
- 1031 **BODY MECHANICS, 1 hour credit**  
Women's Physical Education. Fundamental principles of good body control and movement. Laboratory 2 hours.
- 1041 **TUMBLING AND GYMNASTICS, 1 hour credit**  
Introduction to basic skills in tumbling, gymnastic apparatus and trampoline. Laboratory 2 hours.
- 1051 **INTERMEDIATE GYMNASTICS, 1 hour credit**  
Introduction and development in tumbling and gymnastics routines or apparatus and trampoline. Laboratory 2 hours. Prerequisite: Beginning Gymnastics or Instructor's Permission.
- 1061 **ADVANCED GYMNASTICS, 1 hour credit**  
Individual progression in gymnastics routines used in competition. Demonstrations are given in the community. Laboratory 2 hours. Prerequisite: Intermediate Gymnastics or Permission of Instructor.
- 1081 **PHYSICAL EDUCATION ACTIVITY, 1 hour credit**  
Individual and group activities for general physical improvement. Laboratory 2 hours.
- 1091 **INDIVIDUAL CORRECTIVE EXERCISES, 1 hour credit**  
Methods of corrective exercise for group or individual. Laboratory 2 hours.
- 1101 **BEGINNING SWIMMING, 1 hour credit**  
Introduction to swimming which will equip the individual with basic water safety skills and strokes. Provides opportunity for studying Beginner and Advanced Beginner Red Cross courses. Laboratory 2 hours.
- 1111 **INTERMEDIATE SWIMMING, 1 hour credit**  
A variety of swimming skills are introduced and practiced to provide the student with the opportunity to learn the elements of good swimming. Emphasis on strokes and safety procedures in Intermediate Red Cross courses. Laboratory 2 hours. Prerequisite: Beginning Swimming or equivalent.

- 1121 **ADVANCED SWIMMING, 1 hour credit**  
Student will practice the series of basic strokes with the emphasis on coordination of the whole stroke in order to swim effectively with ease, endurance, and versatility in the water. Advanced forms of safety and an introduction to swimming rescues is provided. Laboratory 2 hours. Prerequisite: Intermediate Swimming or equivalent.
- 1131 **ADVANCED LIFE SAVING, 1 hour credit**  
A comprehensive lifesaving course covering personal safety and self-rescue skills, swimming skills for lifesaving, approaches, carries, defenses, releases, search and rescue, cardiopulmonary resuscitation and small craft safety. Laboratory 2 hours. Prerequisite: Advanced Swimming or equivalent.
- 1141 **WATER SAFETY INSTRUCTION (WSI), 1 hour credit**  
Two part course with the first part consisting of analysis of basic swimming strokes, additional strokes, related aquatic skills plus diving fundamentals. The second part consists of practical teaching in the Red Cross program from beginner to Advanced Life Saving level with cardiopulmonary resuscitation (CPR). Laboratory 2 hours. Prerequisite: Current Senior Life Saving certificate.
- 1151 **SKIN AND SCUBA DIVING, 1 hour credit**  
Basic knowledge and fundamental skills in safe and effective use of face mask, snorkel, fins, and other scuba equipment. Laboratory 2 hours. Prerequisite: Advanced Swimming or equivalent.
- 152 **SKIN AND SCUBA DIVING, 2 hours credit**  
Practice involving skills in safe and effective use of face mask, snorkel, fins and other scuba equipment. Deep water check out and certification. Lecture 1 hour. Laboratory 2 hours. Prerequisite: Advanced Swimming or equivalent.
- 201 **BADMINTON, 1 hour credit**  
Fundamental techniques of Badminton with instruction in court work of singles and doubles. Laboratory 2 hours.
- 211 **PADDLE TENNIS AND PADDLE BALL, 1 hour credit**  
Fundamentals and techniques of Paddle Tennis and Paddle Ball with instruction in court work and strategy of play. Laboratory 2 hours.
- 31 **EQUITATION, 1 hour credit**  
The art of riding on Horseback. Beginners instruction on basic riding position, the control of the horse while riding, mounting and dismounting. The proper use of aids, and the rules of safety. The terminology of horsemanship and the care of the horse. Laboratory 2 hours.
- 41 **ROLLER SKATING, 1 hour credit**  
Instruction in free style, figure and speed skating. Laboratory 2 hours.
- 51 **BEGINNING SAILING, 1 hour credit**  
Fundamental skills and basic knowledge for sailing small watercraft. Laboratory 2 hours. Prerequisite: Must be able to swim.
- 61 **CANOEING AND CAMPING, 1 hour credit**  
Fundamental skills and basic knowledge for canoeing lakes and streams; preparation and use of equipment for outdoor camping. Weekend field trip. Laboratory 2 hours. Prerequisite: Must be able to swim.
- 71 **BOAT SAFETY AND SKIING, 1 hour credit**  
Beginning water skiing, slalom skiing, and safety procedures in the operation of power boats for water skiing. Laboratory 2 hours. Prerequisite: Must be able to swim.

- 1281 FLY AND BAIT CASTING, *1 hour credit*  
Development of skills in executing different methods of casting. Fundamentals used in selecting of rod, reel, and lures. Safety and strategy for fishermen. Laboratory 2 hours.
- 1291 CYCLING AND HIKING, *1 hour credit*  
Organizing and directing individual and group Cycling and Hiking sessions. Simple techniques in the repair and maintenance of bicycles. Proper techniques in safety and skills that will add to the individual's enjoyment and development of appreciation for outdoor recreation. Laboratory 2 hours.
- 2001 ELEMENTARY GOLF, *1 hour credit*  
Fundamentals and techniques of beginning golf. Laboratory 2 hours.
- 2011 ELEMENTARY BOWLING, *1 hour credit*  
Teaching of fundamentals and techniques of bowling. Laboratory 2 hours.
- 2021 ADVANCED BOWLING, *1 hour credit*  
Advancing into teams and league bowling. Laboratory 2 hours. Prerequisite: P.E. 2011.
- 2031 ELEMENTARY TENNIS, *1 hour credit*  
Fundamentals and techniques of tennis. Laboratory 2 hours.
- 2032 INDIVIDUAL SPORTS, *2 hours credit*  
Individual sports and recreational activities for general physical improvement. Laboratory 4 hours.
- 2041 INTERMEDIATE TENNIS, *1 hour credit*  
Review of fundamentals and additional instruction of strokes, court work in singles and doubles. Laboratory 2 hours. Prerequisite: Beginning Tennis or equivalent.
- 2061 RIFLERY, *1 hour credit*  
Safety and marksmanship. Laboratory 2 hours.
- 2062 PHYSICAL EDUCATION ACTIVITY, *2 hours credit*  
Individual and group activities for general physical improvement. Laboratory 4 hours.
- 2101 ARCHERY, *1 hour credit*  
Men and/or Women basic fundamentals of shooting a bow and arrow, terminology, correct selection and care of equipment, safety procedures and etiquette. Laboratory 2 hours.
- 2121 SELF-DEFENSE, *1 hour credit*  
Studying and development of skills and fundamental knowledge in the art of self-defense through scientific principles of body control over opposing forces. Laboratory 2 hours.
- 2131 BEGINNING FENCING, *1 hour credit*  
To develop fundamental skills and basic knowledge of foil fencing, emphasizing safety, development of coordination, and self-confidence. Laboratory 2 hours.
- 2151 FOLK AND SQUARE DANCING, *1 hour credit*  
Basic steps and patterns used in the two types of dance. Laboratory 2 hours.

- 61 INTRAMURAL SPORTS, *1 hour credit*  
Participation in the intramural activities of the university with approval of the Intramural Director. (Maximum credit two hours toward general education requirements, four elective hours toward total 128 hours graduation requirement.)
- 181 RECREATIONAL ACTIVITIES, *1 hour credit*  
Participation in outdoor and indoor recreational activities. Laboratory 2 hours.
- 201 BASEBALL, *1 hour credit*  
Intercollegiate athletic participation.
- 211 BASKETBALL, *1 hour credit*  
Intercollegiate athletic participation.
- 221 FOOTBALL, *1 hour credit*  
Intercollegiate athletic participation.
- 2231 GOLF, *1 hour credit*  
Intercollegiate athletic participation.
- 2241 TRACK AND FIELD, *1 hour credit*  
Intercollegiate athletic participation.
- 3111 SEASONAL TEAM SPORTS I, *1 hour credit*  
Advanced skills and beginning strategy in organized team sports. Laboratory 2 hours.
- 3121 SEASONAL TEAM SPORTS II, *1 hour credit*  
Continuation of P.E. 3111. Prerequisite: P.E. 1001 and 1021. Laboratory 2 hours.
- 3151 CALISTHENICS AND SELF-TESTING DEVICES, *1 hour credit*  
Methods of doing calisthenics and testing of strength of groups or individuals. Laboratory 2 hours.
- 4111 SEASONAL TEAM SPORTS III, *1 hour credit*  
Advanced strategy and skills in organized team sports. Theoretical study and practical experiences leading toward Associate and National Officials Ratings. Laboratory 2 hours. Prerequisite: P.E. 3121.
- 4121 SEASONAL TEAM SPORTS IV, *1 hour credit*  
Continuation of 4111. Laboratory 2 hours. Prerequisite: P.E. 3121.

## SAFETY

- 3723 SAFETY EDUCATION, *3 hours credit*  
Designed to prepare teachers in methods and materials related to safety problems and accident prevention in the home, school, recreation, work and highways. Lecture 3 hours.  
*Persons enrolling in the following Safety courses must have a valid driver's license and be classified as a college junior or senior.*
- 3823 DRIVER AND TRAFFIC SAFETY, *3 hours credit*  
Designed to prepare teachers in problems, techniques and methods of teaching driver and traffic safety in the secondary school. Primary emphasis on teaching the classroom phase of Driver Education related to instruction, and evaluation. Laboratory time for practicing on-the-street driving. Lecture 2 hours, laboratory 2 hours. Prerequisite: Valid Driver's License.

- 4781-4 SPECIAL STUDIES, *1 to 4 hours credit*  
Directed individual study in selected areas of Safety, Traffic and Driver Education through research, readings, reports and/or on-the-job internship. May be repeated. Prerequisite: Junior standing and departmental permission.
- 4923 DRIVER AND TRAFFIC SAFETY II, *3 hours credit*  
Designed to improve skills and techniques for teachers and supervisors in the field of driver education. Includes the study of the latest developments in materials, equipment and research. Laboratory time in teaching beginning driver in dual-control car. Lecture 2 hours, laboratory 2 hours. Prerequisite: 3823 Driver and Traffic Safety I and Valid Driver's License.
- 4933 DRIVER AND TRAFFIC EDUCATION, *3 hours credit*  
Designed to prepare teachers in the operation, supervision, and the use of simulators and multi-car driving ranges in mass teaching methods of Driver and Traffic Education. Laboratory experience for teaching beginning drivers through simulation and multi-car ranges. Lecture 3 hours. Prerequisite: 4923 Driver and Traffic Safety II.
- 4943 ORGANIZATION AND ADMINISTRATION OF DRIVER EDUCATION, *3 hours credit*  
Designed for planning of curriculum, organization and the administration of Driver and Safety Education programs with emphasis on the evaluation of current programs and factors involved in program supervision and administration such as: qualifications, credit, state and national records, reimbursement, adult programs and scheduling. Lecture 3 hours. Prerequisite: 4923 Driver and Traffic Safety II.

## HOME ECONOMICS

Grace Githens, Assistant Professor and Department Chairman  
 Assistant Professors: McKinley, McMahan, Merritt;  
 Instructor: Gedling.

- 1123 **FAMILY RELATIONS, 3 hours credit**  
 Current issues and their effect on relationships of the individual within the family. Lecture 3 hours.
- 1233 **CLOTHING SELECTION AND CONSTRUCTION TECHNIQUES, 3 hours credit**  
 Selection and construction of clothing suited to individual needs, abilities and interests. Problems involving fabric selection, basic fitting and sewing techniques. Laboratory 6 hours.
- 1313 **FOOD PRINCIPLES, 3 hours credit**  
 Practical experience in the preparation and preservation of foods to retain maximum nutritive value, to increase palatability and to assure attractive appearance. Laboratory 5 hours.
- 1343 **BASIC NUTRITION, 3 hours credit**  
 Introduction to the science of nutrition through an analysis of the nutritional requirements of man. Open to all men and women. Lecture 3 hours.
- 2153 **CHILD DEVELOPMENT, 3 hours credit**  
 The child from conception through adolescence. Development within the family setting with emphasis on principles of growth and dynamics of behavior. Observation in the child development laboratory is included. Lecture 3 hours. Observation arranged.
- 2213 **TEXTILES, 3 hours credit**  
 Properties, construction, finishes, use and care of textile fibers. Lecture 3 hours.
- 3153 **OBSERVATION AND PRACTICE IN THE CHILD DEVELOPMENT LABORATORY, 3 hours credit**  
 Observation and individual work with children in the child development laboratory. Lecture 3 hours, laboratory 4 hours. Prerequisite: H Ec 2153.
- 3233 **PROBLEMS IN CLOTHING CONSTRUCTION, 3 hours credit**  
 Use of advanced techniques of fitting, altering, and constructing clothing. An introduction to flat pattern design and tailoring techniques. Laboratory 6 hours. Prerequisite: H Ec 1233.
- 3313 **ADVANCED NUTRITION, 3 hours credit**  
 Interaction and physiological functioning of nutrients; dietary analysis and evaluation with emphasis on the application of the concepts of nutrition. Lecture 3 hours. Prerequisite: Chemistry 2204 or equivalent.
- 3343 **MEAL MANAGEMENT, 3 hours credit**  
 Emphasis on management of resources when planning, marketing, preparing and serving nutritionally adequate meals. Laboratory 5 hours. Prerequisite: H Ec 1313 and H Ec 3313.
- 3423 **HOUSEHOLD EQUIPMENT, 3 hours credit**  
 Fundamental principles in the selection, operation and care of household equipment. Laboratory 4 hours. Junior standing.



- 3593 HOUSING AND INTERIOR DESIGN, *3 hours credit*  
Planning, furnishing and decorating the home for family needs. A brief study of period furniture and architecture. Lecture 1 hours, laboratory 4 hours. Prerequisite: Art 1223.
- 3603 CONSUMER EDUCATION AND MONEY MANAGEMENT, *3 hours credit*  
Basic consumer problems encountered by the individual and the family. Management of money, time and energy as it relates to home, family and community life. Lecture 3 hours. Junior standing.
- 3881-3 WORKSHOP, *1 to 3 hours credit*  
Workshop designed to give intensive emphasis to a specific area of Home Economics. May be repeated, with a different topic, for additional credit. Prerequisite: Junior standing or permission of departmental chairman.
- 4123 MARRIAGE, *3 hours credit*  
Cultural trends and sociological factors affecting marriage in America today. Designed to consider challenges and problems in marital adjustments and interpersonal relations. Lecture 3 hours. Prerequisite: H Ec 1123.
- 4233 COSTUME DESIGN, *3 hours credit*  
Development of costumes relating to fashion and personal appearance. Lecture 3 hours. Junior standing with at least 9 hours of Home Economics.
- 4313 QUANTITY FOODS, *3 hours credit*  
Practical experience in planning, purchasing, preparing and serving food for large groups. Lecture 3 hours, laboratory arranged. Prerequisite: H Ec 3343.
- 4423 HOME MANAGEMENT  
A Seminar, with emphasis on the process of utilizing family resources to achieve desired goals. Prerequisite: Senior standing in Home Economics and permission of Department Chairman.
- 4773 TEACHING CAREER HOME ECONOMICS EDUCATION IN THE SECONDARY SCHOOL, *3 hours credit*  
Principles of learning, methods and materials for teaching and evaluating of Career Home Economics Education at the secondary level. Lecture 3 hours. Prerequisite: Permission of department chairman.
- 4881-4 INDIVIDUAL STUDY IN HOME ECONOMICS, *1 to 4 hours credit*  
Directed research and intensive study on selected problems or special topics. Prerequisite: Senior standing with at least 21 hours in Home Economics and permission of Department Chairman. No more than four credit hours of individual study may be counted toward the requirements for a major in Home Economics.

## HUMANITIES

Charles Smith, Associate Professor and Committee Chairman  
Associate Professors: Norris, Swope;  
Assistant Professors: Bryan, Martin;  
Instructor: Creed.

The University's course offerings in general humanities are primarily designed to satisfy the institution's general education requirements. They are a cooperative effort of the Departments of Art, Language Arts, Music, Social Science and Speech-Drama, and are coordinated by an interdepartmental committee.

- 2114 HUMANITIES IN EARLY WESTERN CULTURE, *4 hours credit*  
An interdisciplinary approach to art, music, history, philosophy, literature and drama from the origins of Western Civilization through the Middle Ages. This course will be team taught by faculty members from the respective departments. Lecture, 4 hours. Prerequisite: English 1213.
- 2224 HUMANITIES IN WESTERN CULTURE: RENAISSANCE  
TO THE PRESENT, *4 credit hours*  
An interdisciplinary approach to art, music, history, philosophy, literature and drama from the Renaissance to the present. This course will be team taught by faculty members from the respective departments. Lecture 4 hours. Prerequisite: English 1213.

## LANGUAGE ARTS

Loren McKeown, Professor and Department Chairman

Associate Professors: Cardwell, Stanley, Swope;

Assistant Professors: Allen, Lansdown, Lynn, Raburn.

Ramsey, L. Shanahan, M. Shanahan, O. Sircy,  
Solstad, Terry Wynn;

Instructors: Newell, Reddout, Beaney, Hardwicke.

## English

- 1003 BASIC ENGLISH, *3 hours credit*  
Review of the fundamentals of English Grammar, standard usage, spelling, and punctuation, including a brief introduction to the basics of writing, with emphasis on individual instruction. Does not satisfy any general education requirement and may not be counted toward a major or minor in English. Lecture 3 hours.
- 1113 ENGLISH COMPOSITION I, *3 hours credit*  
Systematic analysis of expository rhetoric and composition with regular practice to develop proficiency in critical thinking, reading, and writing. Lecture 3 hours.
- 1213 ENGLISH COMPOSITION II, *3 hours credit*  
Continued training in composition and introduction to literary appreciation through the study of literary forms. Prerequisite: English 1113.
- A person with a sufficiently high ACT score in English may take English 1113 by Examination and receive full credit for the course. (See Advanced Credit Examination.)
- 2543 ENGLISH LITERATURE I, *3 hours credit*  
A survey of English literature from its beginning to the close of the eighteenth century. Lecture 3 hours. Prerequisite: English 1213.
- 2653 ENGLISH LITERATURE II, *3 hours credit*  
A survey of English literature from the beginning of the nineteenth century to the present. Lecture 3 hours. Prerequisite: English 1213.
- 2713 WORLD LITERATURE I, *3 hours credit*  
Readings in world literature from classical antiquity to 1700, with emphasis on major authors. Lecture 3 hours. Prerequisite: English 1213.
- 2723 WORLD LITERATURE II, *3 hours credit*  
Reading of major works in world literature from the post-Renaissance period to the present. Lecture 3 hours. Prerequisite: English 1213.
- 2773 SURVEY OF AMERICAN LITERATURE I, *3 hours credit*  
A history of American literature from its beginning to Whitman. Lecture 3 hours. Prerequisite: English 1213.
- 2883 SURVEY OF AMERICAN LITERATURE II, *3 hours credit*  
A history of American literature from Whitman to the present. Lecture 3 hours. Prerequisite: English 1213.

Completion of English Composition II and junior standing or permission of the Department of Language Arts is required for enrollment in classes numbered 3000 or above.

- 2773 AMERICAN LITERATURE I, *3 hours credit*  
A survey of American literature from its beginning to Whitman. Lecture 3 hours. Prerequisite: English 1213.
- 2883 AMERICAN LITERATURE II, *3 hours credit*  
A survey of American literature from Whitman to the present. Lecture 3 hours. Prerequisite: English 1213.
- 3113 SHAKESPEARE, *3 hours credit*  
Origin and development of the drama; life and times of Shakespeare; the Shakespearean theatre; reading of selected plays. Lecture 3 hours.
- 3213 ENGLISH LITERATURE OF THE SEVENTEENTH CENTURY, *3 hours credit*  
Interpretation and criticism of literature of the seventeenth century, with emphasis on authors and works from the metaphysical, cavalier, religious, and classical schools. Lecture 3 hours.
- 3303 ADVANCED COMPOSITION, *3 hours credit*  
Critical scrutiny of the structure and style of prose. Study of how rhetorical principles are used and can be taught. Frequent papers.
- 3313 BLACK LITERATURE IN AMERICA, *3 hours credit*  
Introductory survey of writings of American Negro authors: essays, poetry, short stories, novels, and plays, from the founding of America to the present. Lecture 3 hours.
- 3413 LITERARY CRITICISM, *3 hours credit*  
The rise and development of trends in literary criticism from Aristotle to the present, focusing on the works of the major critics. Lecture 3 hours.
- 3513 AMERICAN NOVEL, *3 hours credit*  
Survey of the American novel; a critical analysis of representative novels of the nineteenth and twentieth centuries. Lecture 3 hours.
- 3613 ROMANTIC AGE, *3 hours credit*  
An intensive study of the five major poets of the Romantic Period: Wordsworth, Coleridge, Byron, Shelly, and Keats. Lecture 3 hours.
- 3713 VICTORIAN AGE, *3 hours credit*  
The poetry and prose of leading authors of the Victorian period, including study of the problems of the Victorian era that bear upon major British writers. Lecture 3 hours.
- 3813 HISTORY OF THE ENGLISH LANGUAGE, *3 hours credit*  
Historical development of English vocabulary, sounds, syntax, and inflections. Lecture 3 hours.
- 4053 SEMINAR IN LITERATURE, *3 hours credit*  
Investigation of one or more major authors or a topic of special interest such as a literary theme, movement or form. The topic varies from semester to semester. Students may repeat English 4053 once for credit but may not elect the same topic. Prerequisite: Consent of department. Seminar 3 hours.
- 4113 THE ENGLISH NOVEL, *3 hours credit*  
The critical analysis of representative novels from the eighteenth century to Thomas Hardy. Lecture 3 hours.
- 4123 THE MODERN ENGLISH NOVEL, *3 hours credit*  
The critical interpretation of major English novels from Joseph Conrad to the present. Lecture 3 hours.

- 4213 CHAUCER, *3 hours credit*  
Language and poetry of Chaucer; a study of *The Canterbury Tales* as a picture of medieval life and as an illustration of various literary types, with emphasis on the language of Chaucer and its development into modern English. Lecture 3 hours.
- 4313 AMERICAN DRAMA, *3 hours credit*  
An examination of representative American plays from naturalistic tragedy to farce, with emphasis on the period since 1918. Lecture 3 hours.
- 4413 MODERN AMERICAN AND BRITISH POETS, *3 hours credit*  
Contemporary trends in British and American poetry; selected works from the major poets. Lecture 3 hours.
- 4513 ENGLISH LITERATURE OF THE EIGHTEENTH CENTURY, *3 hours credit*  
An analysis of British prose and poetry of the eighteenth century with emphasis on the works of Pope, Swift, Boswell, and Johnson as major figures of the century. Lecture 3 hours.
- 4613 ENGLISH GRAMMAR AND LINGUISTICS, *3 hours credit*  
An introductory study of theories of grammar, phonology, morphology, and syntax of the English language, with attention given to semantics, dialect variations, and varieties of usage. Lecture 3 hours.
- 4773 TEACHING OF ENGLISH, *3 hours credit*  
An introduction to the methods and materials in teaching high school English. Lecture 3 hours. Prerequisite: Department approval.
- 4961-3 DIRECTED READINGS IN ENGLISH, *1-3 hours credit*  
Intensive independent reading and research in a selected topic, writer, or movement in literature or language, under the supervision of a qualified member of the faculty. May be repeated to a total of 3 hours. Prerequisite: consent of department chairman.

## FOREIGN LANGUAGE

### French

- 1113 BEGINNING FRENCH I, *3 hours credit*  
An elementary course in understanding, speaking, reading and writing French. Lecture 3 hours.
- 1223 BEGINNING FRENCH II, *3 hours credit*  
Continuation of French 1113. Lecture 3 hours. Prerequisite: French 1113 or equivalent.
- 2113 INTERMEDIATE FRENCH I, *3 hours credit*  
A systematic review of French grammar and the cultivation of facility in reading modern literary texts. Lecture 3 hours. Prerequisite: French 1223 or equivalent.
- 2123 INTERMEDIATE FRENCH II, *3 hours credit*  
Continuation of French 2113. Lecture 3 hours. Prerequisite: French 2113 or equivalent.
- 2133 FRENCH COMPOSITION, *3 hours credit*  
A systematic review of French grammar, conversational and written, with a view toward improving the student's control of written French. Prerequisite: French 1223 or equivalent.

- 2143 FRENCH COMPOSITION AND CONVERSATION, *3 hours credit*  
A continuation of French 2133 with additional emphasis on improving the student's control of the spoken language. Prerequisite: French 2133.
- 4960-3 DIRECTED READING IN FRENCH, *1-3 hours credit*  
This course provides an opportunity for gifted and qualified students to work at a special project not offered in a regular course. May be repeated to a total of 3 hours.

### German

- 1113 BEGINNING GERMAN I, *3 hours credit*  
An elementary course in understanding, speaking, reading and writing German. Lecture 3 hours.
- 1223 BEGINNING GERMAN II, *3 hours credit*  
Continuation of German 1113. Lecture 3 hours. Prerequisite: German 1113 or equivalent.
- 2113 INTERMEDIATE GERMAN I, *3 hours credit*  
A systematic review of German grammar, and the cultivation of facility in reading modern literary texts. Lecture 3 hours. Prerequisite: German 1225 or equivalent.
- 2123 INTERMEDIATE GERMAN II, *3 hours credit*  
Continuation of German 2113. Lecture 3 hours. Prerequisite: German 2113 or equivalent.
- 2133 GERMAN GRAMMAR, *3 hours credit*  
An intensive study of the grammatical structure of German to increase the student's speaking and writing facility. Prerequisite: German 1223.
- 2143 GERMAN COMPOSITION, *3 hours credit*  
The application of skills gained in German 2133 and additional intensified vocabulary study to increase the student's ability to write in good idiomatic German. Prerequisite: German 2133.
- 4960-3 DIRECTED READING IN GERMAN, *1-3 hours credit*  
This course provides an opportunity for gifted and qualified students to work at a special project not offered in a regular course. May be repeated to a total of 3 hours.

### Spanish

- 1113 BEGINNING SPANISH I, *3 hours credit*  
An elementary course in understanding, speaking, reading and writing Spanish. Lecture 3 hours.
- 1223 BEGINNING SPANISH II, *3 hours credit*  
Continuation of Spanish 1113. Lecture 3 hours. Prerequisite: Spanish 1113 or equivalent.
- 2113 SPANISH READING I, *3 hours credit*  
The cultivation of facility in reading modern literary texts. Prerequisite: Spanish 1223 or equivalent.
- 2123 SPANISH READING II, *3 hours credit*  
Continuation of Spanish 2113. Prerequisite: Spanish 2113 or equivalent.
- 2133 SPANISH COMPOSITION I, *3 hours credit*  
A systematic review of Spanish grammar, with a view toward improving the student's control of written Spanish. Prerequisite: Spanish 1223 or equivalent.

- 2143 SPANISH COMPOSITION II, 2 hours credit  
Continuation of Spanish 2133. Prerequisite: Spanish 2132 or equivalent.
- 3113 SPANISH CONVERASTION, 3 hours credit  
Intensive practice in speaking Spanish on topics of everyday life. Prerequisite: Sophomore level proficiency.
- 3203 SURVEY OF SPANISH LITERATURE, 3 hours credit  
A study of representative works of Spanish literature from the beginning to the present day. Prerequisite: Sophomore level proficiency.
- 4960-3 DIRECTED READING IN SPANISH, 1-3 hours credit  
This course provides an opportunity for gifted and qualified students to work at a special project not offered in a regular course. May be repeated to a total of 3 hours. Prerequisite: Spanish 3203 or equivalent.

### Journalism

- 2113 INTRODUCTION TO JOURNALISM, 3 hours credit  
An introduction to news writing and reporting. The technique of news story writing, kinds of news and their sources. Prerequisite: English 1213 or permission.
- 2121 MAGAZINE PRODUCTION, 1 hour credit  
Examination of magazine production techniques. Concentrated study in lay-out design, headlines, copy preparation, cutlines, and typography. Practical application of techniques will be gained through work on student magazine or its equivalent. Departmental permission.
- 2133 NEWS GATHERING, 3 hours credit  
Study of the techniques of gathering news from the various news sources and methods of journalistic research. Concentrated areas of study are government, business, and community organizations. Prerequisite: Journalism 2113 or permission.
- 2213 FUNDAMENTALS OF PHOTOGRAPHY, 3 hours credit  
A study of the principles of photography including composition, film, camera, developing, and printing. Lecture 2 hours, laboratory 4 hours.
- 3123 NEWS WRITING, 3 hours credit  
News writing and reporting techniques with emphasis on interpretive reporting. Prerequisite: Journalism 2113.
- 3133 NEWS EDITING, 3 hours credit  
Study of editing and makeup techniques required in newspaper and magazine fields. Lecture 3 hours. Prerequisite: Journalism 2113.
- 3223 PRINCIPLES OF PUBLIC RELATIONS, 3 hours credit  
Study of the current concepts of public relations as a management function in business, industry, government, and education. Practice work in producing public relations tools. Prerequisite: Junior standing.

### Library Science

Assistant Professors: Skrdle, Spessard;  
Instructors: Ford, Paynter.

- 3113 MATERIALS SELECTION, 3 hours credit  
Methods of selecting and acquiring books, pamphlets and audio visual materials for the library through publishers and other sources; use of tools and aids. Lecture 3 hours.

- 3123 **SCHOOL LIBRARIES, 3 hours credit**  
Organization, administration, and planning of elementary and secondary school library media programs. Lecture 3 hours.
- 3223 **REFERENCE MATERIALS, 3 hours credit**  
Selection, evaluation, and use of basic reference materials; interpretation of reference questions; library reference work. Lecture 3 hours.
- 4123 **CHILDREN'S LITERATURE, 3 hours credit**  
General survey of the literature available for children. Criteria for evaluation of materials in terms of the needs, interests, and abilities of children. Methods of selecting books and introducing them to children. Lecture 3 hours.
- 4313 **BOOKS AND MATERIALS FOR YOUNG PEOPLE, 3 hours credit**  
Survey of adolescent reading patterns, methods of selection and presentation of literature in all media, reading guidance and stimulation of young people.



## MATHEMATICS

Terrall McKellips, Professor and Chairman

Professor: Farmer;

Associate Professors: Hajek, Hegemann, Morris, Olson,  
Riecke, Wagner;

Assistant Professors: Huckabay, Meraz, Phillips, Thompson.

Instructor: J. Cosgrove.

“Students who have credit in mathematics courses numbered 1715 or above may not enroll in courses numbered below 1715 without departmental approval.”

- 1004 **BEGINNING ALGEBRA, 4 hours credit**  
The equivalent of a year of high school algebra. Offered only in night classes. Does not satisfy general education requirement. Lecture 4 hours.
- 1013 **BASIC COLLEGE MATHEMATICS, 3 hours credit**  
Mathematics for general education. A course designed to give students basic concepts, appreciations, understanding, and skills of mathematics. Does not apply towards a major or minor in mathematics. Lecture 3 hours.
- 1115 **BEGINNING AND INTERMEDIATE ALGEBRA, 5 hours credit**  
An integration of beginning and intermediate algebra. Especially designed for students having a high school deficiency in algebra. Lecture 5 hours.
- 1213 **INTERMEDIATE ALGEBRA, 3 hours credit**  
Introductory algebra of the real number system. Lecture 3 hours. Prerequisite: One year of high school algebra.
- 1513 **COLLEGE ALGEBRA, 3 hours credit**  
Topics included are theory of exponents, equations, variables, and functions; logarithms, mathematical induction, binomial theorem, progressions, complex numbers, and partial fractions. Lecture 3 hours. Prerequisite: Math 1213 or equivalent.
- 1613 **PLANE TRIGONOMETRY, 3 hours credit**  
The development and use of circular and trigonometric functions; relations between the functions, logarithms, solutions of triangles; applications to practical problems throughout the course. Lecture 3 hours. Prerequisite: Math 1513 or equivalent.
- 1913 **ANALYSIS FOR BUSINESS, 3 hours credit**  
An intuitive approach to the following topics from college algebra and calculus: functions, solutions of equations and systems of equations, progressions, and introduction to differentiation and integration with business oriented applications. Prerequisite: Mathematics 1213.
- 1715 **COLLEGE ALGEBRA AND TRIGONOMETRY, 5 hours credit**  
An integrated course in College Algebra and Trigonometry. Lecture 5 hours. Prerequisite: Math 1213 or equivalent.
- 2003 **CALCULUS AND ANALYTIC GEOMETRY I, 3 hours credit**  
An introduction to analytic geometry and calculus. Includes analytic geometry of the line; introduction to the limit concept; differentiation of algebraic functions and some applications of differentiation. Prerequisite: Math 1513 and 1613; or 1715; or high school equivalent.

- 013 **CALCULUS AND ANALYTIC GEOMETRY II, 3 hours credit**  
A continuation of 2003. Includes applications of differentiation; introduction to the definite integral; analytic geometry of lines, circles, and conics; and an introduction to the calculus of trigonometric and exponential functions. Prerequisite: Math 2003.
- 2023 **CALCULUS AND ANALYTIC GEOMETRY III, 3 hours credit**  
A continuation of 2013. Includes trigonometric and exponential functions; arc length; polar coordinates; methods of integration and applications of the integral; and solid analytics. Prerequisite: Math 2013 or Math 2215.
- 2033 **CALCULUS AND ANALYTIC GEOMETRY IV, 3 hours credit**  
A continuation of 2023. Includes vectors; infinite series; partial derivatives; and multiple integration. Prerequisite: Math 2013 or Math 2234.
- 2213 **INTRODUCTION TO MODERN ABSTRACT ALGEBRA, 3 hours credit**  
Abstract development of Natural numbers, Rational numbers, and Real numbers. Including elementary number theory, set theory, product sets, equivalence relations, mappings and cardinality. Brief introduction to groups, rings, and fields. Lecture 3 hours. Prerequisite: Math 2215 or Math 2013.
- 2215 **MATH ANALYSIS I, 5 hours credit**  
Analytic geometry of the straight line and the conic sections, derivatives with applications, the definite integral with applications. Lecture 5 hours. Prerequisite: Math 1513 and 1613 or Math 1715.
- 2234 **MATH ANALYSIS II, 4 hours credit**  
Transcendental functions, techniques of integration, polar coordinates, vectors in the plane. Lecture 4 hours. Prerequisite: Math 2215 or Math 2003 and Math 2013.
- 2244 **MATH ANALYSIS III, 4 hours credit**  
Solid analytic geometry, partial differentiation, multiple integrals, infinite series, introduction to differential equations. Lecture 4 hours. Prerequisite: Math 2234 or Math 2023.
- 3103 **INTRODUCTION TO STATISTICS, 3 hours credit**  
Descriptive statistics including graphical representation of data, elementary probability and combinatorial methods, binomial and normal distributions, statistical inference including point estimates of mean, variance and proportion, confidence intervals, tests of hypotheses. An elementary background for the student whose interest is in application of statistical methods. Prerequisite: Math 1213.
- 3113 **PROBABILITY AND STATISTICS I, 3 hours credit**  
Introduction to combinatorial methods, probability random variables and expected value, discrete distributions, continuous probability functions, and moment generating functions. Lecture 3 hours. Prerequisite: Math 2013 or Math 2215.
- 3123 **PROBABILITY AND STATISTICS II, 3 hours credit**  
A continuation of Probability and Statistics I. Sampling, interval estimation, tests of hypothesis, and regression and correlation. Lecture 3 hours. Prerequisite: Math 3113.
- 3213 **ABSTRACT ALGEBRA, 3 hours credit**  
The course emphasizes algebraic structures with particular emphasis on groups, rings, and fields. The fundamental theorems of group and ring theory are introduced and the beginning notions of field theory are presented. Prerequisite: Math 2213.

- 3253 **DIFFERENTIAL EQUATIONS, 3 hours credit**  
Ordinary differential equations with a brief introduction to solutions by series, and the Laplace transform. Lecture 3 hours. Prerequisite: Math 2033 or Math 2234.
- 3302 **HISTORY OF MATHEMATICS, 2 hours credit**  
The historical development of mathematics. Lecture 2 hours. Prerequisite: Departmental permission.
- 3333 **COLLEGE GEOMETRY, 3 hours credit**  
A comprehensive course which includes topics from both Euclidean and non-Euclidean geometries. Lecture 3 hours. Prerequisite: Departmental permission.
- 3344 **COMPUTER SCIENCE I, 4 hours credit**  
Introductory computer methods and numerical analysis. The course includes programming language but emphasizes problem solving by computer techniques. Lecture 3 hours, laboratory 2 hours. Prerequisite: Math 2013 or Math 2215, or Departmental permission.
- 3443 **COMPUTER SCIENCE II, 3 hours credit**  
The course is essentially a continuation of 3344 Computer Science I, but requires a higher level analysis prerequisite (2244). Topics include numerical solution of ordinary differential equation (Taylor series solutions, Runge-Kutta methods, predictor-corrector methods) and partial differential equations (difference, elliptic, hyperbolic, and parabolic equations). Emphasis is on student experience with the computer. Two hours lecture per week and minimum of two hours laboratory per week. Prerequisite: Math 3344.
- 3353 **MATHEMATICS FOR ELEMENTARY TEACHERS I, 3 hours credit**  
A basic course in (contemporary or modern) mathematics for elementary education majors. An introduction to the origin and history of number systems: number systems of different bases and basic set concepts. Does not apply toward a major or minor in mathematics. Lecture 3 hours. Prerequisite: General Education Mathematics.
- 3363 **MATHEMATICS FOR ELEMENTARY TEACHERS II, 3 hours credit**  
Structure of the real number system, relations, functions, and elementary geometric concepts with emphasis on informal geometry. Does not apply toward a major or minor in mathematics. Lecture 3 hours. Prerequisite: Math 3353.
- 3373 **ALGEBRA FOR ELEMENTARY TEACHERS, 3 hours credit**  
A course in algebra specifically designed for the elementary teacher which includes those topics of algebra that permeate the modern elementary program and many of those which elementary students will encounter in the secondary school. Emphasis is on the role of algebra in teaching in elementary school. Prerequisite: Math 3363 or Department permission.
- 3383 **GEOMETRY FOR ELEMENTARY TEACHERS, 3 hours credit**  
A course in geometry specifically designed for the elementary teacher. The geometrical concepts which are introduced in modern elementary mathematics programs are covered in detail in this course. Prerequisite: Math 3363 or departmental permission.
- 4413 **LINEAR ALGEBRA, 3 hours credit**  
Vector spaces, linear transformations, matrices, determinants, characteristic equation, bilinear and quadratic forms. Lecture 3 hours. Prerequisite: Math 2213.

- 4423 **NUMBER THEORY, 3 hours credit**  
Divisibility of integers, congruences, quadratic residues, mathematical induction, distribution of primes, diophantine equations, numerical functions and continued fractions. Lecture 3 hours. Prerequisite: Math 2213 or departmental permission.
- 4433 **MATRIX ALGEBRA, 3 hours credit**  
Elementary operations with Matrix algebra, determinants, inverse of a matrix, rank and equivalence, linear equations and linear dependence, vector spaces and linear transformation, characteristic equations of a matrix; bilinear, quadratic, and Hermitian forms. Lecture 3 hours. Prerequisite: Math 2213 or departmental permission.
- 4471-3 **SEMINAR IN MATHEMATICS, 1-3 hours credit**  
Group projects designed to meet special needs. Prerequisite: Departmental approval. Will count on major or minor only with departmental approval.
- 4483 **INTRODUCTORY REAL ANALYSIS, 3 hours credit**  
A study of the basic concepts of analysis, elementary set theory, the real numbers, sequences, series, real functions, derivatives, and integrals. Lecture 3 hours. Prerequisite: Math 2033 or Math 2244, and departmental permission.
- 4491-3 **INDEPENDENT STUDY IN MATHEMATICS, 1-3 hours credit**  
Assigned research, readings, and reports based on the needs of the individual student. May be taken only by juniors or seniors. Prerequisite: Departmental permission.
- 4772 **TEACHING OF SECONDARY MATHEMATICS, 2 hours credit**  
The general aspects of the teaching of mathematics; detailed study of the teaching of the various high school mathematics courses. Lecture 2 hours. Prerequisite: Senior standing.

### Meteorology

- 2003 **INTRODUCTION TO METEOROLOGY I, 3 hours credit**  
Introduction to the interaction of the Sun and the Earth, nature of radiation, distribution of temperature and heat balance, observations and instruments, cloud structure, elementary thermodynamics along with the water vapor effects on the atmosphere. Prerequisite: Credit for the concurrent enrollment in Math 1513.
- 2013 **INTRODUCTION TO METEOROLOGY II, 3 hours credit**  
Introduction to the general circulation, horizontal and vertical motion in the atmosphere, cyclones, air masses, condensation—convective and non-convective processes—tropical meteorology, synoptic analysis and forecasting. Prerequisite: Meteorology 2003.

## MILITARY SCIENCE

LTC Billy J. Slusher, Professor and Department Chairman  
Assistant Professor: MAJ Booth,  
CPT Redwine, CPT Loop;  
Principle Drill Instructor: SGM Brewer;  
Senior Instructor: MSG Perkins.

### Basic Course

The ROTC Basic Course, which consists of the following four courses, is designed to provide a basic understanding of the purpose and history of the United States Army, to offer training in fundamental military skills, to teach principles of instructional techniques, and to provide classroom and practical training in leadership. Enrollment in Basic Course subjects is open to all full-time day students, male and female, regardless of intentions to continue in ROTC or to pursue a commission. There is no military obligation incurred for basic course attendance. Full academic credit is given for all ROTC basic courses. In addition, general education requirements for up to 4 hours of physical activity credits can be satisfied by enrollment in MS I or MS II.

- 1012 FOUNDATIONS OF NATIONAL SECURITY, *2 hours credit*  
The introductory course to the ROTC program. A study of the history and purpose of ROTC, the role of the U.S. Army in planning and execution of National Policy, and an introduction to fundamentals of problem solving. Lecture 2 hours, laboratory 2 hours.
- 1022 PRINCIPLES OF MILITARY INSTRUCTION, *2 hours credit*  
A study of the methods and techniques of military instruction, conference and practical work affording opportunity to prepare, rehearse and conduct classes on selected subjects. Lecture 2 hours, laboratory 2 hours.
- 2012 DIMENSIONS OF MILITARY LEADERSHIP, *2 hours credit*  
An analysis of the qualities of Leadership. A study of principles and techniques of influencing the actions of others. Conferences, supplemented with seminars relating to current leadership problems. Lecture 2 hours, laboratory 2 hours. Prerequisite: MS 1012 and MS 1022.
- 2022 AMERICAN MILITARY HISTORY, *2 hours credit*  
A survey study of American Military History from the American Revolution to the present. The principles of war as applied to battles will be the primary discussion point. Prominent political and military leaders' leadership traits and capabilities will be analyzed. Lecture 2 hours, laboratory 2 hours.

### Advanced Course

The ROTC Advanced Course, comprised of the following four courses, is designed to train qualified, selected students, both male and female, in the basic skills and abilities desired in a commissioned officer. Map reading, communications, tactics, and practical work at advanced camp lay a ground work for specialized staff and area studies

conducted in the senior year. Entrance into the Advanced Course is indicated on at least one of the following requirements. Selected students must be physically, morally, and mentally qualified for a commission in the United States Army. They must also have successfully completed the Basic Course, or have attended and completed the ROTC Basic Summer Camp in lieu of the Basic Course, or qualify as a veteran of active service, and secure permission of the Professor of Military Science. Full academic credit is given for all ROTC Advanced Courses to include 3 hours for ROTC Basic Camp and 4 hours for ROTC Advanced Camp.

- 013 **MAP READING AND COMMUNICATIONS, 3 hours credit**  
An introduction to the basic military skills. An intensive study of the principles and techniques associated with the use of military maps. A study of the use of current tactical communications equipment. Lecture 4 hours, laboratory 2 hours. Prerequisite: Completion of the ROTC Basic Course (MS 1012, 1022, 2012, 2022) or completion of ROTC Basic Camp (MS 3033) or qualify as a veteran, and permission of the Professor of Military Science.
- 3023 **TACTICS AND OPERATIONS, 3 hours credit**  
A continuation of study of military skills and applications toward the Military Team. Tactical considerations of employment of the squad, platoon and company. Lecture 4 hours, laboratory 2 hours.
- 4013 **MILITARY TEAM AND STAFF OPERATIONS, 3 hours credit**  
A study of unit staff officer responsibilities, combat operations, and the military team with emphasis on the planning and coordination necessary between the elements of the team. Lecture 4 hours, laboratory 2 hours.
- 4023 **MILITARY MANAGEMENT, 3 hours credit**  
A study of unit administration and logistical procedures. The role of the officer as a manager. Includes a study of the fundamental concepts of military justice. Lecture 4 hours, laboratory 2 hours.

### Summer Camp

- 3003\* **BASIC SUMMER CAMP, 3 hours credit**  
Basic camp is a six-week training period conducted during the summer session prior to enrollment in the Advanced Course. The camp includes instruction in basic military subjects and applied leadership training designed to meet the prerequisites of the advanced program. This camp is required only of those new students who are not qualified veterans and have not successfully completed the on campus ROTC Basic Course of instruction. Successful completion of this camp qualifies a student for enrollment directly into the advanced course. Students receive payment for attendance at the Basic Camp plus transportation to and from camp (approximately \$500.00).
- 4004 **ADVANCED SUMMER CAMP, 4 hours credit**  
A six-week training period required of all Advanced Course students between the junior and senior academic school year. Successful completion of Advanced Camp is a prerequisite for commissioning. Stu-

\*Enrollment in MS 3003 will be during the summer preceding the admission to the advanced two-year program.

dents receive one-half of a Second Lieutenants base pay for the training period plus transportation to and from camp (approximately \$475.00).

#### Leadership Laboratory

Leadership Laboratory is a weekly period of instruction during which the student learns new practical military skills and reinforces these skills previously acquired. Visits to nearby Fort Sill allow the students to get a first hand look at Army duty and its lifestyle. Specific activities include: rifle marksmanship, map reading, weapons orientation, and orientation trips to Fort Sill. Attendance at leadership laboratory is considered for each student on an individual basis. Every effort is made to resolve conflicts with other class work and participation in university programs such as the athletic program.

- 1171 **JAZZ ENSEMBLE, 1 hour credit**  
The performance and study (listening, improvising, composing, and arranging) of the diverse styles of jazz as a uniquely American musical art form. Performances include concerts, jazz festivals, and other scheduled appearances. Concentration of the music studied is contemporary big band jazz. Open to all college students by audition. Class 3 hours. May be repeated for credit.
- 1901 **MUSIC FUNDAMENTALS, 1 hour credit**  
A study of the signs and symbols used in music. Open to all students, majors, and non-majors. Primarily for entering freshmen who fail to pass the theory evaluation test. Class 1 hour.
- 2012 **MUSIC APPRECIATION I, 2 hours credit**  
For non-music majors. Designed to bring about increased awareness of our cultural heritage through an acquaintance with the elements of music in a variety of styles. The course will include listening to recorded music and live performances. Class 2 hours.
- 2022 **MUSIC APPRECIATION II, 2 hours credit**  
For non-music majors. A continuation of Music Appreciation I, with emphasis on musical forms and music of the 20th century. This course will include listening to recorded music and live performances. Class 2 hours. Prerequisite: Music 2012.
- 2401 **PERCUSSION CLASS, 1 hour credit**  
The study of fundamentals of all percussion instruments. The basic concepts of playing and teaching; survey of methods and materials. Class 2 hours.
- 2401 **PERCUSSION CLASS, 1 hour credit**  
The study of the flute, oboe, clarinet, bassoon and saxophone. Basic concepts of playing and teaching woodwind instruments; survey of methods and materials. Class 2 hours.
- 2551 **WOODWIND CLASS, 1 hour credit**  
A continuation of Music 2541. Class 2 hours.
- 2561 **BRASS CLASS, 1 hour credit**  
The study of the trumpet, trombone, French horn, baritone and tuba. Basic concepts of playing and teaching brass instruments; survey of methods and materials. Class 2 hours.
- 2571 **BRASS CLASS, 1 hour credit**  
A continuation of Music 2561. Class 2 hours.
- 2913 **ELEMENTARY HARMONY I, 3 hours credit**  
A study of the 18th and 19th century styles in music. Part-writing, melody harmonization, and analysis, from simple major triads through diatonic 7th chords. Prerequisite: Music 1901 or passing grade on theory evaluation test. Class 3 hours. Concurrent enrollment with Music 2921 recommended for Music Majors.
- 2921 **ELEMENTARY EAR TRAINING I, 1 hour credit**  
A study of ear training problems from simple scale passages and tonic chord skips through intervals in all triads. Simple and compound meter; the unit and its division. Prerequisite: Music 1901 or passing grade on theory evaluation test. Lecture-Lab 2 hours. Concurrent enrollment with Music 2913 recommended for Music Majors.
- 2933 **ELEMENTARY HARMONY II, 3 hours credit**  
A continuation of Music 2913. Prerequisite: Music 2913. Class 3 hours. Concurrent enrollment with Music 2941 recommended for Music Majors.



- 941 **ELEMENTARY EAR TRAINING II, 1 hour credit**  
A continuation of Music 2921. Prerequisite: Music 2921. Lecture-Lab 2 hours. Concurrent enrollment with Music 2933 recommended for Music Majors.
- 101 **PRINCIPLES OF CONDUCTING, 1 hour credit**  
A beginning course in the principles of both choral and instrumental conducting. Class 2 hours.
- 3111 **INSTRUMENTAL CONDUCTING, 1 hour credit**  
The technique of reading scores and use of the baton in interpretation of them. Practical experience in conducting instrumental groups. Class 2 hours. Prerequisite: Music 3101.
- 3121 **CHORAL CONDUCTING, 1 hour credit**  
The technique of reading scores and use of the baton in interpretation of them. Practical experience in conducting choral groups. Class 2 hours. Prerequisite: Music 3101.
- 3132 **MUSIC FOR ELEMENTARY TEACHERS I, 2 hours credit**  
A basic course in the rudiments of music for the general teacher. Functional approach to study of theory, singing, rhythm, and piano keyboard, with performance of simple pieces. Class 2 hours.
- 3142 **MUSIC FOR ELEMENTARY TEACHERS II, 2 hours credit**  
Materials and methods for the general teacher in teaching music in elementary grades. Class 2 hours. Prerequisite: Music 3132 or permission.
- 3151 **MUSIC ENSEMBLE, 1 hour credit**  
Participation in vocal, instrumental, or keyboard ensembles. Class 1-4 hours. Prerequisite: Permission. May be repeated for credit.
- 3233 **MUSIC HISTORY I, 3 hours credit**  
A general study of music development starting during the ancient period and progressing through the Baroque. Lecture, recorded examples, required readings and listening. First semester. Class 3 hours. Prerequisite: Music 1222 or permission.
- 3243 **MUSIC HISTORY II, 3 hours credit**  
A continuation of Music 3233 from Classical through Contemporary music. Second semester. Class 3 hours. Prerequisite: Music 3233 or permission.
- 3550-2 **OPERA WORKSHOP, 0 to 2 hours credit**  
Opera production and performance, staging, properties, scenery, directing, performing. Classes and laboratory sessions arranged. May be repeated for credit. Prerequisite: Permission.
- 3512 **VOCAL PEDAGOGY, 2 hours credit**  
Study of vocal teaching techniques including anatomy of vocal tract, physiological process, and acoustical properties, repertory for high school students. Class 2 hours. Prerequisite: Permission.
- 3712 **ELEMENTARY MUSIC METHODS, 2 hours credit**  
A professional training course for students preparing to teach elementary school music. Includes philosophies and practices of current leading music educators with classroom experience relating to conceptual approach. Class 2 hours. Prerequisite: Departmental permission.
- 3722 **SECONDARY MUSIC METHODS, VOCAL, 2 hours credit**  
A professional training course for students preparing to teach secondary school vocal music. Study of philosophy, psychology, and pedagogy as applied to the teaching of vocal music. Class 3 hours. Prerequisite: Permission.

- 3742 **SECONDARY MUSIC METHODS, INSTRUMENTAL, 2 hours credit**  
A professional training course for students preparing to teach secondary school instrumental music. Study of philosophy, psychology, and pedagogy as applied to the teaching of instrumental music. Class 3 hours. Prerequisite: Permission.
- 3752 **MARCHING BAND METHODS, 2 hours credit**  
Administration, organization, and implementation of the school marching band. Fundamentals of drill, half-time show planning, charting, and scoring; precision marching, pageantry, and parade techniques. Class 2 hours. Prerequisite: Departmental permission.
- Enrollment in courses numbered 3801 through 3864 is subject to departmental approval and availability of staff.*
- 3801-4 **PRIVATE PIANO, 1-4 hours credit**  
Individual piano lessons. May be repeated for credit.
- 3811-4 **PRIVATE VOICE, 1-4 hours credit**  
Individual voice lessons. May be repeated for credit.
- 3821-4 **PRIVATE WOODWIND, 1-4 hours credit**  
Individual woodwind lessons. May be repeated for credit.
- 3831-4 **PRIVATE BRASS, 1-4 hours credit**  
Individual brass lessons. May be repeated for credit.
- 3841-4 **PRIVATE PERCUSSION, 1-4 hours credit**  
Individual percussion lessons. May be repeated for credit.
- 3851-4 **PRIVATE ORGAN, 1-4 hours credit**  
Individual organ lessons. May be repeated for credit.
- 3861-4 **PRIVATE STRINGS, 1-4 hours credit**  
Individual string lessons. May be repeated for credit.
- 3913 **ADVANCED HARMONY I, 3 hours credit**  
Part-writing using all diatonic resources, modulation, and all altered chords; styles of writing other than chorale. Keyboard study of harmonization of melodies using all diatonic and chromatic resources. Prerequisite: Music 2933. Class hours—3. Concurrent enrollment with Music 3921 recommended for Music Majors.
- 3921 **ADVANCED EAR TRAINING I, 1 hour credit**  
Aural study of rhythmical superimposition, compound intervals, melodic and harmonic modulation, diatonic 7th chords, and modal melodies. Prerequisite: Music 2941. Lecture-Lab 2 hours. Concurrent enrollment with Music 3913 recommended for Music Majors.
- 3933 **ADVANCED HARMONY, 3 hours credit**  
Twentieth Century melodic and harmonic techniques. Prerequisite: Music 3913. Class 3 hours. Concurrent enrollment with Music 3941 recommended for Music Majors.
- 3941 **ADVANCED EAR TRAINING II, 1 hour credit**  
Sight-reading and aural training in Twentieth Century melodic and harmonic resources. Prerequisite: Music 3921. Lecture-Lab—2 hours. Concurrent enrollment with Music 3933 recommended for Music Majors.
- 4002 **ORCHESTRATION, 2 hours credit**  
A study of the characteristics of the instruments of the orchestra and their use in combination; the science and art of scoring for ensembles and orchestra. Class 2 hours. Prerequisite: Music 3933.

- 4212 **VOCAL MUSIC LITERATURE, 2 hours credit**  
A survey of solo songs and choral literature from the Renaissance to the present. Emphasis on influences and characteristics of style, interpretation and performance of vocal materials for all voice classifications. Class 2 hours. Prerequisite: Departmental permission.
- 4222 **INSTRUMENTAL MUSIC LITERATURE, 2 hours credit**  
The study of instrumental music literature from the Renaissance to the present. Emphasis on style analysis through score study of, and listening to, major works for the symphony orchestra, the concert band, and chamber groups. Class 2 hours. Prerequisite: Departmental permission.
4413. **PIANO PEDAGOGY, 3 hours credit**  
Study of teaching techniques and materials for class and private instruction. Class 3 hours. Prerequisite: Permission.
- 4423 **PIANO LITERATURE, 3 hours credit**  
Comprehensive study of major piano literature (for both pedagogical and performance purposes), primary composers of piano literature, and styles of performance. Class 3 hours. Prerequisite: Music 1212, 1222, 3233, 3243.
- 4912 **COUNTERPOINT, 2 hours credit**  
A study of the several species of counterpoint. Original writing in two parts culminating in a complete two-part invention. Class 2 hours. Prerequisite: Music 3933.
- 4952 **FORMS AND ANALYSIS, 2 hours credit**  
A study of the standard polyphonic and homophonic forms of the 18th and 19th centuries with analysis of representative compositions in each form. Class 2 hours. Prerequisite: Music 3933.
- 4962 **COMPOSITION, 2 hours credit**  
An exploration of the various compositional styles of the 20th century through analysis of harmonic, structural, and contrapuntal devices occurring in representative works. The student is encouraged, through use of these materials in original composition to begin development of his own creative style. Class 2 hours. Prerequisite: Music 3393 and 3941.

## NURSING

Delores Kruger, Assistant Professor and Department Chairman  
Edna Hill, In-Service Education Coordinator  
Assistant Professors: Holeman, Morton;  
Instructors: Bennett, Burnett, Conn, Fire, Jones,  
Pestonjee, Strickland.

The Department is utilizing Learning Experience Guides for Nursing Students (LEGS) which is a total nursing curriculum plan based on behavioral objectives, learning experiences utilizing multi-media, and self-tests for student evaluation. The basic tools of the curriculum are student guides in loose leaf format called LEGS. There are four guides; each guide has its own audiovisual components. LEGS allows students to see relationships in nursing early in the program. This is a self-directed, non-lecture program.

- 1053    **STRUCTURE OF MEDICAL TERMS, 3 hours credit**  
An introductory course in medical terminology. Emphasis on components of medical terms, definitions, spelling and correct usage. Enrollment not limited to nursing students. Not required by nursing students but highly recommended. Offered in summer sessions only.
- 1018    **INTEGRATED NURSING I, 8 hours credit**  
Covers the fundamentals of nursing, including normal prenatal care, beginning communication, and growth and developmental tasks for all ages. Demonstration, group discussion, and audiovisual aids are used in the college lab setting. All clinical experience is supervised. First semester. Group discussion 5 hours., laboratory 9 hours. Prerequisite: Completion of or concurrent enrollment in Zoology 1124.
- 1027    **INTEGRATED NURSING II, 7 hours credit**  
Treats beginning physical and mental illness for all ages. Includes labor and delivery and postpartum care with emphasis on practice in problem solving. Demonstration, group discussion, and audiovisual aids are all utilized. Second semester. Group discussion 4 hours, laboratory 9 hours. Prerequisite: Nursing 1018, and completion of or concurrent enrollment in Biology 2034.
- 2039    **INTEGRATED NURSING III, 9 hours credit**  
Deals with physical and mental illness of all ages, including complications of pregnancy. Emphasis is on decision making. Third semester. Group discussions 5 hours, laboratory 12 hours. Prerequisite: Nursing 1018 and Nursing 1027.
- 2049    **INTEGRATED NURSING IV, 9 hours credit**  
Covers the transition from the classroom to the job. It presents nursing history, trends in nursing, legal aspects of nursing, community health and an over-view of leadership skills. Prerequisite: Nursing 1018, 1027, 2039.

## PHYSICAL SCIENCE

Bob Vowell, Professor and Department Chairman  
Associate Professors: Crane, Finke, Harwood, Hawk,  
Nalley, Snider, Stanton;  
Assistant Professor: Seals.

## Chemistry

- 1004 **DESCRIPTIVE CHEMISTRY, 4 hours credit**  
A one-semester terminal course for non-science majors. Principal concepts and theories of chemistry are critically examined from the layman's point of view. No credit for students who take later chemistry courses. Lecture 4 hours.
- 1015 **GENERAL CHEMISTRY, 5 hours credit**  
A beginning course in the fundamental concepts and theories of chemistry, and application of these principles to selected elements and compounds. Students who have had high school chemistry and a composite score of 18 on the ACT Test *must* take Chemistry 1364. (Exception: A student with an ACT composite score of 26 or above who has not had high school chemistry *must* take Chemistry 1364.) Lecture 4 hours, laboratory 2 hours. Prerequisite: Two semesters of high school algebra or concurrent enrollment in Math 1213.
- 1225 **GENERAL CHEMISTRY, 5 hours credit**  
A continuation of Chemistry 1015. Lecture 4 hours, laboratory 2 hours. Prerequisite: Chemistry 1015.
- 1364 **GENERAL CHEMISTRY, 4 hours credit**  
Principles of general chemistry, with emphasis upon theory and its applications to structure and reactions. Lecture 4 hours. Prerequisite: High school chemistry and a composite score on the ACT Test of 18 or above. Students who meet these requirements must take this course. Chemistry 1361 must be successfully completed before credit is received in this course.
- 1361 **GENERAL CHEMISTRY LABORATORY, 1 hour credit**  
Selected laboratory experiences to test application of chemical theory. Laboratory 2 hours. Prerequisite: Chemistry 1364 or concurrent enrollment.
- 1474 **GENERAL CHEMISTRY, 4 hours credit**  
A continuation of Chemistry 1364. Lecture 4 hours. Chemistry 1471 or equivalent must be successfully completed before credit is received in this course. Prerequisite: Chemistry 1364.
- 1471 **GENERAL CHEMISTRY LABORATORY, 1 hour credit**  
Chemical principles involved in detection of common cations and anions by semi-micro laboratory techniques. (Note: students majoring or minoring in chemistry, who take this course, will not be required to take Chemistry 2222.) Laboratory 2 hours. Prerequisite: Chemistry 1361 and Chemistry 1474, or concurrent enrollment.
- 2112 **THEORY OF CHEMICAL ANALYSIS, 2 hours credit**  
Modern theories of solutions of electrolytes applied to analytical chemistry. Lecture 2 hours. Prerequisite: Chemistry 1225 or equivalent.
- 2222 **QUALITATIVE ANALYSIS, 2 hours credit**  
Analysis for common cations, anions, and acid radicals by semi-micro laboratory techniques. Lecture 1 hour, laboratory 4 hours. Prerequisite: Chemistry 2112 or concurrent enrollment.



- 23 **QUANTITATIVE ANALYSIS, 3 hours credit**  
Laboratory techniques of quantitative analysis, includes both volumetric and gravimetric methods. Lecture 1 hour, laboratory 6 hours. Prerequisite: Chemistry 2112 or concurrent enrollment.
- 204 **ORGANIC CHEMISTRY, 4 hours credit**  
A one-semester course for home economics students. Deals with the occurrence, methods of preparation, characteristic reactions and properties of the more common organic compounds with special reference to the compounds studied in foods. Lecture 3 hours, laboratory 3 hours. Prerequisite: Chemistry 1364 and Chemistry 1361, or equivalent.
- 314 **ORGANIC CHEMISTRY, 4 hours credit**  
Nomenclature, structure, reactions, stereochemistry, and mechanisms of both aliphatic and aromatic compounds. Lecture 3 hours, laboratory 3 hours. Prerequisite: Chemistry 1474 and Chemistry 1471 or equivalent.
- 3324 **ORGANIC CHEMISTRY, 4 hours credit**  
A continuation of Chemistry 3314. The second semester of a two-semester sequence. Lecture 3 hours, laboratory 3 hours. Prerequisite: Chemistry 3314.
- 3333 **CHEMISTRY OF WATER AND WASTE, 3 hours credit**  
Inorganic chemistry of natural water supplies, pollution and water treatment. Lecture 1 hour, laboratory 6 hours. Prerequisite: Chemistry 2112.
- 3343 **ORGANIC ANALYSIS, 3 hours credit**  
Characterization, derivatization, and identification of unknowns consisting of one or more organic compounds. Instrumental methods of analysis as applied to the identification of organic compounds, including practical laboratory work with IR, NMR, GLC, and TLC. Lecture 1 hour, laboratory 6 hours. Prerequisite: Chemistry 3324, or concurrent enrollment.
- 3345 **ORGANIC CHEMISTRY, 5 hours credit**  
A one-semester introduction to the fundamentals of organic chemistry and methods of preparations, reactions, and uses of cyclic, acyclic, and heterocyclic compounds. Lecture 3 hours, laboratory 4 hours. Prerequisite: Chemistry 1474 and Chemistry 1471 or equivalent.
- 4024 **INSTRUMENTAL METHODS OF ANALYSIS, 4 hours credit**  
Theoretical and laboratory study of modern analytical techniques, both qualitative and quantitative with emphasis on instrument types, their components, and methodology. Lecture 2 hours, laboratory 6 hours. Prerequisite: Chemistry 2223.
- 4333 **INORGANIC CHEMISTRY, 3 hours credit**  
A survey of all of the elements and important compounds based on atomic structure and position in the periodic system; effect of atomic size, ionic size, and charge on the properties of elements. Prerequisite: Senior standing or permission.
- 4343 **INORGANIC CHEMISTRY II, 3 hours credit**  
Introduction to theoretical implications underlying bonding, stereochemistry, and other structural concepts in inorganic chemistry. Ionic, valence bond, molecular orbital, and crystal field theories. Mechanisms of reactions in solution. Prerequisite: Chemistry 4333.
- 4353 **PHYSICAL CHEMISTRY I, 3 hours credit**  
A fundamental course in physical chemistry, including application of thermodynamics, kinetics and theory of physical properties of matter as applied to chemical systems. Lecture 3 hours. Prerequisite: Chemistry 2223 and Mathematics 2234.

- 4351 **PHYSICAL CHEMISTRY LABORATORY, 1 hour credit**  
Apparatus, methods and calculations employed in physio-chemical measurements. Laboratory 3 hours. Prerequisite: Physical Chemistry 4353 or concurrent enrollment.
- 4363 **PHYSICAL CHEMISTRY II, 3 hours credit**  
A continuation of Chemistry 4353. Lecture 3 hours. Prerequisite: Chemistry 4353.
- 4361 **PHYSICAL CHEMISTRY LABORATORY, 1 hour credit**  
A continuation of Chemistry 4351. Laboratory 3 hours. Prerequisite: Physical Chemistry 4363 or concurrent enrollment.
- 4403 **BIOCHEMISTRY I, 3 hours credit**  
An introduction to the chemistry and metabolism of carbohydrates, lipids, and proteins. Basic concepts of biochemistry of vitamins and enzymes, biological oxidations, bio-energetics. Lecture 3 hours. Prerequisite: Chemistry 3324 or permission from department.
- 4401 **BIOCHEMISTRY LABORATORY, 1 hour credit**  
Qualitative and quantitative examination of biochemical materials and reactions. Laboratory 3 hours. Prerequisite: Chemistry 2223 and Biochemistry 4403 or concurrent enrollment.
- 4413 **BIOCHEMISTRY II, 3 hours credit**  
A continuation of Biochemistry 4403. Lecture 3 hours. Prerequisite: Biochemistry 4403.
- 4411 **BIOCHEMISTRY LABORATORY, 1 hour credit**  
A continuation of Biochemistry Laboratory 4401. Laboratory 3 hours. Prerequisite: Biochemistry Laboratory 4401, Biochemistry 4413 or concurrent enrollment.
- 4442 **CHEMICAL LITERATURE, 2 hours credit**  
Introduction to the library resources of chemistry. Use of the original literature, abstracts and publications. Lecture 2 hours. Prerequisite: Permission of the department.
- 4453 **ADVANCED GENERAL CHEMISTRY, 3 hours credit**  
A course for teachers. Reviews modern theories and concepts applicable to beginning chemistry courses. Lecture 3 hours. Prerequisite: Permission of the department.
- 4472 **METHOD OF TEACHING PHYSICAL SCIENCES, 2 hours credit**  
Methods in teaching the physical sciences for secondary school. Lecture and laboratory demonstrations, 2 hours. Prerequisite: 15 hours of college chemistry and permission of the department.
- 4491-4 **SPECIAL PROBLEMS IN CHEMISTRY, 1-4 hours credit**  
Training in independent work. Experimental investigations of an assigned problem. Laboratory 3-12 hours. Prerequisite: Senior standing and permission of the department.

### Geology

- 1015 **PHYSICAL GEOLOGY, 5 hours credit**  
Igneous, sedimentary and metamorphic rocks; results of erosion of the earth's surface by streams, oceans, winds, glaciers; phenomena of mountains, volcanoes, earthquakes, and interior of the earth. Field trips. Lecture 4 hours, laboratory 3 hours.



- 1024 **HISTORICAL GEOLOGY, 4 hours credit**  
Geological history of the earth as revealed in the character and fossil content of the rocks. Field trips. Lecture 3 hours, laboratory 3 hours.

### Physical Science

- 1055 **GENERAL PHYSICAL SCIENCE, 5 hours credit**  
A lecture-laboratory course designed for students with a non-scientific background. The course attempts to integrate the various areas of physical science into a comprehensible whole. This course is designed for non-science majors. Lecture 3 hours, laboratory 2 hours, 1 hour arranged. Prerequisite: Two years of high school algebra or equivalent.

### Physics

- 1004 **DESCRIPTIVE PHYSICS, 4 hours credit**  
A survey course in general physics. Topics include mechanics, heat, sound, electricity, magnetism, and modern physics. For students who wish only four semester hours of physics. No credit for students who take later physics courses. Lecture 4 hours.
- 1115 **PHYSICS I, 5 hours credit**  
A beginning lecture and laboratory study of the fundamental principles of mechanics, heat, and sound. Lecture 4 hours, laboratory 2 hours. Prerequisite: Math 1613 or 1715.
- 1215 **PHYSICS II, 5 hours credit**  
A continuation of Physics 1115. A lecture and laboratory study of the fundamental principles of electricity, magnetism, light, and modern physics. Lecture 4 hours, laboratory 2 hours. Prerequisite: Physics 1115.
- 2015 **MECHANICS, HEAT AND SOUND, 5 hours credit**  
A lecture-laboratory course of general physics taught with calculus. Includes topics from mechanics, heat, and sound. Lecture 4 hours, laboratory 2 hours. Prerequisite: Math 2215 or concurrent enrollment in Math 2215.
- 2025 **ELECTRICITY AND LIGHT, 5 hours credit**  
A continuation of Physics 2015. Includes topics from electricity, light, and modern physics. Lecture 4 hours, laboratory 2 hours. Prerequisite: Physics 2015.
- 2213 **SELECTED TOPICS IN GENERAL PHYSICS, 3 hours credit**  
A survey treatment of the basic topics in general physics using the calculus. Designed for those students having taken the non-calculus general physics sequence as preparation for the upper division physics courses. NOT open to students with credit in Physics 2015 or 2025. Lecture 3 hours. Prerequisite: Physics 1215, Math 2215.
- 3003 **MODERN PHYSICS, 3 hours credit**  
Topics in atomic physics, nuclear physics, and solid state physics. Lecture 3 hours. Prerequisite: Math 2215 or concurrent enrollment in Math 2215, Physics 2025, or permission.
- 3011 **MODERN PHYSICS I LABORATORY, 1 hour credit**  
Selected experiments in atomic and nuclear physics; as, Bragg's Law experiment, Michelson's Interferometer, Gamma Ray Spectroscopy, Hall Effect, Statistics of Data, Paramagnetic Resonance, laboratory 3 hours. Prerequisite: Physics 2033 or concurrent enrollment in Physics 2033. Laboratory 3 hours.

- 3024 **ELECTRICAL MEASUREMENTS AND ELECTRONICS, 4 hours credit**  
Principles and applications of dc and ac circuit analysis, measuring instruments, electron tubes, and various solid state devices. These include amplifiers, multivibrators, and oscillators. Lecture 4 hours. Prerequisite: Physics 2025 or permission.
- 3031 **ELECTRICAL MEASUREMENTS AND ELECTRONICS LABORATORY, 1 hour credit**  
Construction, testing, and applications of the devices studied in Physics 3024. Laboratory 3 hours. Prerequisite: Physics 3024 or concurrent enrollment.
- 3033 **MODERN PHYSICS II, 3 hours credit**  
A review of the historical background of nuclear physics coupled with modern theories and concepts of the nucleus, elementary quantum mechanics, and an introduction to solid state theory and its applications. Lecture 3 hours. Prerequisite: Physics 3003.
- 3303 **MECHANICS, 3 hours credit**  
A vector analytical approach to the mechanics of particles, systems of particles, and rigid bodies. Lecture 3 hours. Prerequisite: Math 3253, Physics 2025 or permission.
- 3403 **HEAT AND THERMODYNAMICS, 3 hours credit**  
Non-mechanical energy, gas thermometer and absolute temperature, heat transfer, first and second law of thermo-dynamics, Carnot-cycle, Otto-cycle, and statistical thermodynamics. Lecture 3 hours. Prerequisite: Math 2234, Physics 2025 or permission.
- 4113 **ELECTRICITY AND MAGNETISM, 3 hours credit**  
A study of electrostatic fields and potentials, dielectrics, currents, magnetic fields, and Maxwell's equations. Methods of vector calculus are introduced and used extensively. Lecture 3 hours. Prerequisite: Math 2244 and Physics 2025 or permission.
- 4403 **LIGHT, 3 hours credit**  
A study of geometrical and physical optics. Topics include reflection, refraction, lenses, wave theory, interference, diffraction, dispersion, and polarization. Lecture 3 hours. Prerequisite: Physics 2025, Math 2215.
- 4452 **ADVANCED LABORATORY, 2 hours credit**  
Experiments in heat, mechanics, optics, nuclear physics, and solid-state physics. Laboratory 6 hours. Prerequisite: Permission of department.
- 4491-3 **SPECIAL PROBLEMS, 1 to 3 hours credit**  
An individual study course of advanced nature. Subject material varies with background and interests of the student, and may be either class-work or laboratory. Laboratory work will be of research quality with individual guidance from a faculty member. Prerequisite: 11 hours of College Physics and permission of instructor.

## SOCIAL SCIENCE

David H. Miller, Professor and Department Chairman

Associate Professors: Blodgett, Musslewhite, Norris,

Quinten, Simpson, C. Smith;

Assistant Professors: Andrus, Chenoweth, Hickman, Overton, Seamans,

Stegmaier, Stevens, Willis, Wright;

Instructors: Elliott, Renfro.

## Geography

- 2014 **PHYSICAL GEOGRAPHY, 4 hours credit**  
A basic introduction to the physical elements of the earth as they relate to man. The influence of such factors as soils and minerals, landforms and hydrography, vegetation, weather, and climate are emphasized. Lecture 3 hours, laboratory 2 hours.
- 2243 **HUMAN GEOGRAPHY, 3 hours credit**  
The principles of geography in its human aspects and its relationship to the cultural patterns of the world. Lecture 3 hours.
- 3023 **ECONOMIC GEOGRAPHY, 3 hours credit**  
A study of the resource base and economic activities with emphasis on production, distribution, and consumption of various types of commodities of the world. Lecture 3 hours.
- 3033 **HISTORICAL GEOGRAPHY OF THE UNITED STATES, 3 hours credit**  
The geographic environment of America and its influence on the historical evolution of the United States. Lecture 3 hours. Prerequisite: Geography 2243 and 3023 or History 1483 and 1493, or permission.
- 3213 **WORLD REGIONAL GEOGRAPHY, 3 hours credit**  
A comparative study of the world's major geographic regions as they are defined by interrelated complexes of physiographic and cultural elements. Lecture 3 hours. Prerequisite: Junior standing.
- 3253 **CONSERVATION OF NATURAL RESOURCES, 3 hours credit**  
A study of America's resources; their geographic localization, and the nature and problems of their uses and misuses. Lecture 3 hours. Prerequisite: Departmental permission.

## History

- 1113 **EARLY WESTERN CIVILIZATION, 3 hours credit**  
The civilizations which have contributed to the shaping of contemporary society: prehistoric civilization, and the civilization of the Near East, Greece, and Rome; and the medieval church and the Protestant Reformation. Lecture 3 hours.
- 1123 **MODERN WESTERN CIVILIZATION, 3 hours credit**  
Early modern times and the genesis of present civilization. The period of the rise of monarchy, individualism, and capitalism in western Europe; the development of the Industrial Revolution in Great Britain and the political revolutions in France and other European nations; the growth of totalitarianism and its struggle with democracy. Lecture 3 hours.

- 1483 UNITED STATES HISTORY TO 1865, *3 hours credit*  
Introductory survey from European backgrounds through the Civil War. Lecture 3 hours.
- 1493 UNITED STATES HISTORY SINCE 1865, *3 hours credit*  
A survey of the development of the United States from 1865 to the present. Lecture 3 hours.
- 2112 OKLAHOMA HISTORY AND GOVERNMENT, *2 hours credit*  
A survey of the development of Oklahoma from the time of the discovery of America to the present. Lecture 2 hours.
- 2473 EASTERN CIVILIZATION, *3 hours credit*  
The culture and civilizations of the Middle East, India and the Far East from earliest times to the twentieth century. Lecture 3 hours.
- 3013 COLONIAL LATIN AMERICA, *3 hours credit*  
The development of colonial social, political, economic, and religious institutions, and their impact upon Latin America today, from discovery and exploration through the wars for independence. Lecture 3 hours.
- 3023 REPUBLICAN LATIN AMERICA, *3 hours credit*  
The development of the independent republics in the Twentieth Century. Lecture 3 hours.
- 3103 THE WEST IN AMERICAN HISTORY TO 1828, *3 hours credit*  
The Turner thesis and the significance of the westward movement in American history, with special emphasis on the Anglo-American frontier and on migration into the Mississippi Valley. A comparison of the English, French and Spanish approaches to the frontier. Lecture 3 hours. Prerequisite: History 1483.
- 3113 THE WEST IN AMERICAN HISTORY SINCE 1828, *3 hours credit*  
Development of the trans-Mississippi and far Western frontiers, with special attention to the Southwest. Exploration, the fur trade, Indian relations, overland migration, transportation, territorial acquisition, mining and cattle frontiers, and the agrarian revolt. Lecture 3 hours. Prerequisite: History 1483 and 1493.
- 3133 CONSTITUTIONAL HISTORY OF THE UNITED STATES, *3 hours credit*  
The origin and development of the Constitution of the United States with special emphasis on interpretation of the Constitution of the courts. Lecture 3 hours. Prerequisite: History 1483 and Political Science 1113.
- 3153 CONTEMPORARY AMERICAN AFFAIRS, *3 hours credit*  
The United States in the Age of the Cold War, from the origins of the rift with Russia in the diplomacy of World War II through the crises in Korea and Vietnam. Lecture 3 hours. Prerequisite: History 1483 and 1493.
- 3233 ENGLAND TO 1689, *3 hours credit*  
The English people in their political, social, and institutional development from earliest times through the Glorious Revolution. Lecture 3 hours.
- 3243 ENGLAND SINCE 1689, *3 hours credit*  
Emergence of cabinet government, the Industrial Revolution, the Napoleonic era and empire problems, and the development of England to the present. Lecture 3 hours.

- 3353 **AMERICAN NEGRO HISTORY, 3 hours credit**  
A study of the Negro in American History from the development of the slave trade through emancipation and up to the present time. Emphasis is placed upon the influence of the Negroes in the history of the United States, and upon the institutional relationships that have developed as a result of their presence in the United States. Lecture 3 hours. Prerequisite: History 1483 and 1493.
- 3373 **THE ANTEBELLUM SOUTH, 3 hours credit**  
Cultural, economic and social history of the South from colonial times to the Civil War. Lecture 3 hours. Prerequisite: History 1483.
- 3383 **THE NEW SOUTH, 3 hours credit**  
The political, economic and social development of the American South from 1865 to the present, with particular attention to the problems arising from changes in agriculture, the beginnings of industry and the relations between the races. Lecture 3 hours. Prerequisite: History 1493.
- 4033 **AMERICAN DIPLOMATIC HISTORY TO 1900, 3 hours credit**  
A survey of American foreign policy from the War for Independence to 1900, with emphasis on the efforts of the United States government to obtain recognition from the Continental European States, to protect and expand foreign trade, to defend neutral rights and to maintain peace. Lecture 3 hours. Prerequisite: History 1483 and 1493.
- 4243 **AMERICAN COLONIAL HISTORY, 3 hours credit**  
The political, economic, social and cultural history of the colonies in North America from the earliest settlements to the preliminaries of the great war for empire. The modification of the European institutions and ideals in the New World. Lecture 3 hours. Prerequisite: History 1483.
- 4253 **REVOLUTIONARY AMERICA, 1754-1783, 3 hours credit**  
The French and Indian War; the British imperial system; the causes and immediate consequences of the War for American Independence. Lecture 3 hours. Prerequisite: History 1483.
- 4263 **THE EARLY NATIONAL PERIOD IN THE UNITED STATES, 3 hours credit**  
The drafting and adoption of the federal Constitution and the organization of a new national government. The origin and development of political parties; the conflict between nationalism and sectionalism; foreign policy and territorial expansion in the period from 1783 to 1824. Lecture 3 hours. Prerequisite: History 1483.
- 4273 **THE MIDDLE PERIOD IN AMERICAN HISTORY 1824-1861, 3 hours credit**  
A political history of the period between 1824 and 1861. The impact of nationalism, liberalism, and sectionalism upon American life in the middle period. Lecture 3 hours. Prerequisite: History 1483 and 1493.
- 4283 **CIVIL WAR IN AMERICA, 3 hours credit**  
The political, military, diplomatic, economic and social problems encountered by the Union and the Confederacy; leading personalities and events of the war between the states. Lecture 3 hours. Prerequisite: History 1483.
- 4293 **RECONSTRUCTION AND TRANSITION IN THE UNITED STATES, 3 hours credit**  
An intensive study of the major economic, political and social changes in the United States in the aftermath of the Civil War, with emphasis on the processes and problems of reconstruction in the southern states,

and with special attention to the rise of modern industrialism and to the organization of labor and the farmers. Lecture 3 hours. Prerequisite: History 1493.

- 4303 **THE EMERGENCE OF THE UNITED STATES AS A WORLD POWER, 1890-1920, 3 hours credit**  
An intensive study of the three decades in which the United States first emerged as a major factor in international affairs. The Spanish American War and the acquisition of an overseas empire; Progressivism and other reform movements in the early twentieth century; neutrality; World War I and the Treaty of Versailles. Lecture 3 hours. Prerequisite: History 1493 and Junior standing.
- 4363 **FRENCH REVOLUTION AND NAPOLEONIC ERA, 3 hours credit**  
The period of the French Revolution and Napoleon including the origins of the revolution, the course of its development, the rise of Napoleon, the Napoleonic wars and their effect on Europe. Lecture 3 hours. Prerequisite: History 1123.
- 4373 **HISTORY OF EUROPE, 1815-1870, 3 hours credit**  
Europe at the end of the Napoleonic Era; the Congress of Vienna and the Congress system; the revolutions of 1830 and 1848; the unification of Italy and Germany. Lecture 3 hours. Prerequisite: History 1123.
- 4383 **HISTORY OF EUROPE, 1870-1918, 3 hours credit**  
The growth of alliances; economic and political imperialism; World War I and its origin. Lecture 3 hours. Prerequisite: History 1123.
- 4403 **EUROPE, THE AGE OF ABSOLUTISM 1648-1789, 3 hours credit**  
The growth of divine-right monarchy in Europe and the balance of power; the rationalists and the age of Enlightenment. Lecture 3 hours. Prerequisite: History 1113 and 1123.
- 4413 **THE RENAISSANCE AND REFORMATION, 3 hours credit**  
The decline of Feudalism and Manorialism and the rise of the national state; the revival of culture and the arts; the decline of the universal church; the Protestant Reformation. Lecture 3 hours. Prerequisite: History 1113 and 1123.
- 4443 **RECENT EUROPEAN HISTORY, 3 hours credit**  
The quest for security in the 1920's, the rise of the dictators and the road to war. World War II and its aftermath. Lecture 3 hours. Prerequisite: History 1123.
- 4453 **MODERN RUSSIA FROM 1815 TO THE PRESENT, 3 hours credit**  
Europe after the Napoleonic Wars, Russia in the Nineteenth Century, the nature of the old regime, the emergence of the underground movement, revolutionary literature, the revolutions of 1917, and modern communist Russia. Lecture 3 hours. Prerequisite: History 1123.
- 4463 **MODERN FAR EAST, 3 hours credit**  
The institutional background and the impact of the occidental world on the East from the early Nineteenth Century. Problems of modern China, Japan and India, and their relations with the West, especially the United States. Lecture 3 hours. Prerequisite: History 2473, or permission.
- 4483 **DIPLOMATIC HISTORY OF MODERN EUROPE, 3 hours credit**  
A discussion and analysis of the major personalities, events and trends in European diplomacy from the post Napoleonic settlement into the Atomic Age. Attention will be focused primarily upon the major nations of Western Europe. Russia, the Balkan states and the area of Eastern Europe will be treated only in so far as they interact with the Western European powers. Prerequisite: History 1123.

- 4493 **RECENT AMERICAN HISTORY, 3 hours credit**  
The United States in the Age of the Great Depression, with primary stress on the social problems and popular movements of the 1920's, the New Deal policies of Franklin D. Roosevelt and the circumstances under which the nation became involved in World War II. Lecture 3 hours. Prerequisite: History 1483 and 1493.
- 4772 **METHODS OF TEACHING HISTORY, 2 hours credit**  
Problems and methods of instruction of history and closely-allied fields. Lecture 2 hours. Prerequisite: Twenty hours of history and department approval.
- 4783 **PHILOSOPHY OF HISTORY, 3 hours credit**  
A study of important philosophers and philosophies of history from the seventeenth century to the present, with emphasis on their attempts to determine the aims of historical inquiry, and to categorize the explanations used by historians to discover recurring patterns. Lecture 3 hours. Prerequisite: Senior standing and 18 hours of History.
- 4793 **SENIOR SEMINAR IN HISTORY, 3 hours credit**  
Fundamentals of research and writing for history majors, with attention to the assumptions and premises on which these methods are based and to the mechanics of the historical essay. A lengthy research paper is required. Prerequisite: Senior standing and permission of the department.
- 4961-3 **DIRECTED READINGS IN HISTORY, 1-3 hours credit**  
Intensive independent readings on definite problems or special subjects, based on pre-approved outlines or plans, with regular conferences and with oral and written reports. Prerequisite: Eighteen hours of History and permission of the department. The total number of hours earned in Directed Readings may not exceed three.

### Philosophy

- 1113 **INTRODUCTION TO PHILOSOPHY, 3 hours credit**  
Leading philosophic ideas in Western thought. Lecture 3 hours.
- 2213 **ELEMENTARY LOGIC, 3 hours credit**  
The methods and principles used in distinguishing correct from incorrect reasoning, both deductive and inductive. Lecture 3 hours.
- 3013 **ETHICS, 3 hours credit**  
A history of moral philosophy from the Age of Homer to recent times, with particular attention to contemporary concepts of the good life and standards of conduct, problems of personal morality, and the question of individual freedom versus social responsibility. Lecture 3 hours. Prerequisite: Philosophy 1113.

### Political Science

- 1113 **AMERICAN FEDERAL GOVERNMENT, 3 hours credit**  
A study of the American governmental system. The American experiment in federalism and democracy; origin and development of the United States Constitution; federal-state relations, civil liberties, the individual as a citizen; political parties; governmental services. Lecture 3 hours.
- 2213 **CONCEPTS AND METHODS OF POLITICAL SCIENCE, 3 hours credit**  
An introduction to basic political concepts, institutions, processes and methods, as well as a review of career opportunities for political scientists. Lecture 3 hours.

- 2023 STATE AND LOCAL GOVERNMENT, *3 hours credit*  
A study of the various political units in the United States with emphasis on the organization, function, and administration of the state, county, and municipality. Lecture 3 hours.
- 3013 POLITICAL PARTIES AND PRESSURE GROUPS, *3 hours credit*  
A critical study of the political processes in the United States with special reference to development of the political parties and their relationship to voter behavior. Lecture 3 hours. Prerequisite: Political Science 1113.
- 3023 AMERICAN POLITICAL THOUGHT, *3 hours credit*  
Main currents and cross-currents in American political thought from Puritanism to the present with emphasis on those concepts and ideas which have most decisively influenced the evolution of the federal system of government. Lecture 3 hours. Prerequisite: Junior standing or departmental permission.
- 3113 THE FORMATION OF PUBLIC POLICY, *3 hours credit*  
An analysis of the Presidency, the Congress, the Supreme Court and the national bureaucracy as major institutions of national government, and an examination of their collective role in the development of public policies and in the solution of national problems. Lecture 3 hours. Prerequisite: Junior standing.
- 3213 INTERNATIONAL RELATIONS, *3 hours credit*  
The political dynamics and machinery of international relations, with emphasis on the norms and techniques of nationalism, imperialism, collective security and the formation and execution of foreign policy. Lecture 3 hours. Prerequisite: Political Science 1113.
- 3223 INTERNATIONAL ORGANIZATION, *3 hours credit*  
An analysis of the background, formation, aims, activities and accomplishments of international governmental organizations, with emphasis on the United Nations and related agencies. Lecture 3 hours. Prerequisite: Political Science 1113.
- 3483 THE AMERICAN EXECUTIVE, *3 hours credit*  
A comprehensive study of the Presidency, with emphasis on the development of the power, influence, philosophy and personalities of the office. The course will compare the office of the Presidency with the office of governor in the various states. Lecture, 3 hours.
- 4013 COMPARATIVE GOVERNMENT, *3 hours credit*  
A comparative study of modern political institutions and processes, with particular attention to European political systems. Lecture 3 hours. Prerequisite: Political Science 1113.
- 4023 THE DEVELOPING NATIONS, *3 hours credit*  
An analysis of political institutions and processes with emphasis on selected developing countries in Africa, Asia, Latin America and the Middle East. Lecture 3 hours. Prerequisite: Political Science 1113.
- 4053 PROBLEMS OF AMERICAN FOREIGN POLICY, *3 hours credit*  
A survey of American policies with regard to current international conflicts and problems, with a descriptive analysis of the manner in which these courses or actions are determined and carried out by federal agencies, and an intensive examination of major alternatives to the existing policies. Lecture 3 hours. Prerequisite: Political Science 1113 and 3213 or consent of the instructor.



- 253 **THE JUDICIAL PROCESS, 3 hours credit**  
An analysis of the court system in the United States, focusing on the United States Supreme Court, lower federal courts, federal-state judicial relations, and the role of the judicial system in American policy processes. Prerequisite: Political Science 1113.
- 491-3 **SELECTED TOPICS IN POLITICAL SCIENCE, 1-3 hours credit**  
An intensive analysis of a selected political problem or special topic in government. May be repeated, with a different topic, for additional credit. Prerequisite: Political Science 1113, 2113, 3023 or 3113.
- 4613 **EARLY POLITICAL THOUGHT, 3 hours credit**  
A study of the fundamental contributions to Western political thought from the Classical period to the early 19th Century. Lecture 3 hours.
- 4653 **CONTEMPORARY POLITICAL THOUGHT, 3 hours credit**  
An analysis of 19th and 20th Century political thought and philosophy, with an emphasis on the concepts of democracy, conservatism, liberalism, socialism, fascism, communism, and the welfare state. Lecture 3 hours. Prerequisite: Political Science 1113.
- 4793 **SENIOR SEMINAR IN POLITICAL SCIENCE, 3 hours credit**  
The study and application of research methods and techniques, with special attention to the problems of value, fact, opinion, bias, symbol and myth. Prerequisite: Permission of the department.  
Prerequisite: Sociology 1113 or Philosophy 1113.

### Religious Education

- 1112 **OLD TESTAMENT LITERATURE, 2 hours credit**  
A survey course covering the entire Old Testament. Lecture 2 hours.
- 1122 **NEW TESTAMENT LITERATURE, 2 hours credit**  
A study based upon the New Testament records and other related sources. Lecture 2 hours.

### Sociology

- 1113 **PRINCIPLES OF SOCIOLOGY, 3 hours credit**  
A general survey of the scope and problems of sociology; a study of the forces which cause the development of human relationships which influence the rise and growth of people, and impel the organizations composing human society. Lecture 3 hours.
- 2023 **SOCIAL PROBLEMS, 3 hours credit**  
The nature and solution of such current problems as poverty, disease, crime, marriage and the family, health, government, religion, national security, and the tradition of civil liberties. Lecture 3 hours.
- 2033 **DEVIANT BEHAVIOR, 3 hours credit**  
A general introduction to contemporary perspectives on deviant behavior. Lecture 3 hours. Prerequisite: Sociology 1113 and Psychology 1113.
- 3003 **POLITICAL SOCIOLOGY, 3 hours credit**  
A study of man's social environment as it relates to and interacts with man's political world. Included is a consideration of the sociological influences on man's political behavior in the following areas: (a) power distribution on the national, state, and local levels; (b) public opinion, voting behavior, and political participation; (c) interest group formation

- and structure; (d) the forces of political change and ideological movements; and (e) the legal-institutional level of political decision-making. Lecture 3 hours. Prerequisite: Sociology 1113 and Political Science 1113 or 3023.
- 3013 **RACIAL AND CULTURAL MINORITIES, 3 hours credit**  
Investigation of the sociological processes of a racially and culturally heterogeneous society; migration, accommodation, assimilation, amalgamation, segregation, pluralism. Lecture 3 hours. Prerequisite: Sociology 1113 or 2023.
- 3113 **DEVELOPMENT OF SOCIOLOGICAL THOUGHT, 3 hours credit**  
An inquiry into the historical origins of contemporary sociological theories, ranging from the classical Greek period to the present, but with special attention to the works of Auguste Comte. Lecture 3 hours. Prerequisite: Sociology 1113 or Philosophy 1113.
- 3123 **CONTEMPORARY SOCIAL THEORY, 3 hours credit**  
Survey of contemporary sociological theories of society, including symbolic interactionism, communication theory, systems theory, ethnomethodology, mathematical theories, power theories, etc. Lecture 3 hours. Prerequisite: Sociology 1113.
- 3223 **METHODS IN SOCIAL RESEARCH, 3 hours credit**  
Introduction to the basic concepts of social research: parametric and non-parametric techniques, formulation and testing of hypothesis, research design, instruments of research, sampling problems, and interpretation of data. Lecture 3 hours. Prerequisite: Sociology 1113 and Math 3103 or equivalent.
- 3323 **COLLECTIVE BEHAVIOR, 3 hours credit**  
Spontaneous group behavior—that which is not organized as a part of the culture and social organization of the group: crowds and mobs, publics and public opinion, fads, fashions and mass behavior of all types. Lecture 3 hours. Prerequisite: Sociology 1113.
- 3373 **RURAL SOCIOLOGY, 3 hours credit**  
Rural society; its people, structure, systems and processes. The influence of geography and patterns of settlement upon rural life. Population growth and migratory patterns of rural people. Lecture 3 hours. Prerequisite: Sociology 1113.
- 4013 **THE SOCIOLOGY OF CRIME AND DELINQUENCY, 3 hours credit**  
A study of current theories and empirical research findings pertaining to crime and juvenile delinquency in the United States, its causes, methods of prevention, and systems of punishment, and rehabilitation. Lecture 3 hours. Prerequisite: Sociology 1113 or 2023.
- 4023 **FIELD EXPERIENCES, 3 hours credit**  
Planned and supervised experience or observation in agency settings. Readings and comprehensive report. Prerequisite: Sociology 1113, 2023, and 3223.
- 4323 **SOCIAL CHANGE, 3 hours credit**  
Functions, components and patterns of social change. Innovation and invention, diffusion, social conflict and modernization. A critical consideration of modern American social movements, their causes and results. Lecture 3 hours. Prerequisite: Sociology 1113 and 2023.

4491-3 **SPECIAL PROBLEMS, 1 to 3 hours credit**  
Intensive independent readings or study on definite problems or special subjects, based on pre-approved outlines or plans, with regular conferences and with oral and written reports. Prerequisite: 15 hours of Sociology and permission of the departmental chairman.

4793 **SENIOR SEMINAR: SELECTED TOPICS IN SOCIOLOGY, 3 hours credit**  
Intensive studies of a major sociological concern, such as criminology, demography, race and ethnic relations, mass communication, theory, etc. Prerequisite: Sociology 1113, Sociology 3123, and Sociology 3223.



## SPEECH-DRAMA

J. C. Hicks, Associate Professor and Chairman  
 Associate Professor: Ewbank;  
 Assistant Professors: Allison, Pate;  
 Instructors, Creed, Williams.

## Drama

- 1101-2 THEATRE LABORATORY, *1-2 hours credit*  
 Preparation for and participation in dramatic activities. Departmental permission required. May be repeated for 4 hours credit.
- 1223 MOVEMENT AND MIME, *3 hours credit*  
 To give the student an understanding of the use of the body as an expressive instrument. Study and practice in dramatic movement and formalized gestures as related to pantomime. Incorporates elements of dance in stage productions. Lecture 3 hours.
- 2113 STAGECRAFT, *3 hours credit*  
 Study of the theory of scenery and lighting; practical experience in construction of scenery and in painting. Lecture 2 hours, laboratory 2 hours.
- 2212 INTRODUCTION TO THEATRE, *2 hours credit*  
 A study of the organization and operation of theatre; emphasis on the building of a vocabulary of theatrical terms; acquaintance with the physical facilities and the responsibility of personnel and performers. Lecture 2 hours.
- 2213 FUNDAMENTALS OF ACTING, *3 hours credit*  
 A general course in acting in which the student learns to develop the physical and technical tools of the actor's art. Practical experience in performing. Lecture 3 hours. Prerequisite: Drama 2212 or permission.
- Completion of Introduction to Theatre and Fundamentals of Speech is required for enrollment in drama classes numbered 3000 or above.**
- 3232 STAGE MAKEUP, *2 hours credit*  
 General theory and practice in make-up. Prerequisite: Drama 2213.
- 3303 ADVANCED ACTING, *3 hours credit*  
 Advanced instruction in acting focused on the development of character and styles in acting. Lecture 3 hours. Prerequisite: Drama 2213.
- 3333 ADVANCED TECHNICAL PRODUCTION, *3 hours credit*  
 Theory and practice of advanced stage design and lighting. Lecture 3 hours. Prerequisite: Drama 2113.
- 3383 HISTORY OF THE THEATRE I, *3 hours credit*  
 A study of the development of the theatre from the Greeks through the 17th Century. Lecture 3 hours. Prerequisite: Drama 2213.
- 3393 HISTORY OF THE THEATRE II, *3 hours credit*  
 A study of the development of the theatre from 1700 until present. Lecture 3 hours. Prerequisite: Drama 3383.
- 4323 DIRECTING, *3 hours credit*  
 A study of the functions and responsibilities of the director in the theatre. Each student functions as director in a series of assigned scenes. Lecture 3 hours. Prerequisite: Drama 3303 and 3333.

- 4491-3 **SPECIAL PROBLEMS, 1 to 3 hours credit**  
An individual study course of advanced nature. Subject matter varies with background and interest of the student, and may be classwork or laboratory. Prerequisite: Permission of department. May be repeated for a total of six hours credit.

### Speech

- 1113 **FUNDAMENTALS OF SPEECH, 3 hours credit**  
An introductory course designed to acquaint the student with the basic theory of the art of public speaking and to provide experience in the preparation and delivery of short talks. Lecture 3 hours.
- 1133 **VOICE AND DICTION, 3 hours credit**  
A general study of the structure of the vocal mechanism; principles of vocal quality, articulation and pronunciation. Lecture 3 hours.
- Completion of Fundamentals of Speech is required for enrollment in classes numbered 2000 or above.**
- 2143 **DEBATE I, 3 hours credit**  
Acquaints the student with the complexity of social problems, methods of research, methods of logical analysis and development, construction of briefs, and techniques of refutation; practice in preparation and delivery of sustained arguments. Lecture 3 hours.
- 2313 **DISCUSSION METHODS, 3 hours credit**  
An overview of the nature of discussion and its essential function in democratic decision-making; a study of methods for defining the discussion question, securing information, constructing and defending arguments, and preparing discussion outlines; a review of contemporary theory regarding structure and processes in groups. Observation and practice in information sharing and decision-making groups. Lecture 3 hours. Prerequisite: Speech 1113.
- 2443 **FUNDAMENTALS OF BROADCASTING, 3 hours credit**  
The organization and function of broadcasting. Introduction to the techniques used in radio and television broadcasting. Lecture 3 hours.
- 2533 **ORAL INTERPRETATION OF LITERATURE, 3 hours credit**  
A beginning study and practice in oral reading of literature, with emphasis on the oral expression of logical and emotional meaning in literature, and the selection of material. Lecture 3 hours.
- 3113 **ARGUMENTATION AND ADVOCACY, 3 hours credit**  
Nature of argumentative controversy; studies in analysis, evidence, reasoning, and refutation; variables of form and method. Lecture 3 hours. Prerequisite: Upper-division standing.
- 3121-4 **FORENSICS LABORATORY, 1-4 hours credit**  
Preparation for the participation in intercollegiate forensics and competitive speech activities including debate, discussion, original oratory, extemporaneous and impromptu speaking and oral interpretation. Prerequisite: Speech 2143 or permission.
- 3313 **ADVANCED PUBLIC SPEAKING, 3 hours credit**  
A continued emphasis on the development of the art of public speaking; specific attention to longer speeches and speeches for special occasions, and the development of delivery skills and performance ability. Lecture 3 hours.

- 3353 **DISCUSSION AND CONFERENCE LEADERSHIP, 3 hours credit**  
A course designed for the person desiring to develop practical leadership techniques for business and professional conferences: both the theory and application of conference leadership are stressed. Lecture 3 hours.
- 3363 **HISTORY OF SPEECH I, 3 hours credit**  
A survey of the classical philosophies of speech from the Greeks through the 17th century. Lecture 3 hours. Prerequisite: 8 hours of speech or permission.
- 3373 **HISTORY OF SPEECH II, 3 hours credit**  
A survey of the philosophies of speech and rhetoric from 1700 to present. Lecture 3 hours. Prerequisite: Speech 3363.
- 3413 **SPEECH DEVELOPMENT AND CORRECTION, 3 hours credit**  
Study of the development of speech and language in the child; speech and language disorders and other speech problems. Lecture 3 hours. Prerequisite: Speech 1133 or permission.
- 3423 **BROADCAST ANNOUNCING, 3 hours credit**  
A course designed to meet the specific needs of the radio-television announcer; instruction includes drills to develop pleasing and effective vocal communication as a means of improving radio-television presentation, delivery and interpretation. Prerequisite: Speech 2443. Lecture 3 hours.
- 3431-2 **BROADCASTING LABORATORY, 1-2 hours credit**  
Preparation for and participation in all phases of radio and television; may be repeated to a maximum of four hours. Departmental permission.
- 3442 **READERS THEATRE, 2 hours credit**  
The group performance of literature; studies in the selection, adaption, script development, and production techniques of various literary forms. Prerequisite: Speech 2533.
- 3533 **ADVANCED ORAL INTERPRETATION, 3 hours credit**  
Analytical study of modern American poetry for oral expression: the development of oral interpretation as a performing art. Lecture 3 hours. Prerequisite: Speech 2533.
- 3633 **PERSUASION, 3 hours credit**  
A study of persuasive communication, including theories of human motivation; audience analysis; methods of adaption; emotional, logical and rhetorical appeals; and special emphasis on ethical responsibilities of the speaker and listener. Analysis, preparation and presentation of persuasive speeches. Lecture 3 hours. Prerequisite: 9 hours speech.
- 3773 **SPEECH IN THE ELEMENTARY SCHOOL, 3 hours credit**  
The utilization of speech in the elementary school curricula. Directs attention to recognition of speech defects and problems in articulation, to the development of effective listening and speaking attitudes, and to the application of speech activities to problems of discipline. Prerequisite: Junior standing or permission of department chairman. Lecture 3 hours.
- 4133 **DEBATE II, 3 hours credit**  
Advanced consideration of the techniques employed in debating controversial issues with emphasis on research, case development, and judging procedures. Practice in various forms of debate. Lecture 3 hours. Prerequisite: Speech 2143.

- 4491-3 **DIRECTED READING, 1-3 hours credit**  
An individual study course of advanced nature. Subject matter varies with background and interest of the student and may be both classwork and laboratory. Prerequisite: Permission of department. May be repeated for a total of six hours credit.
- 4523 **PSYCHOLOGY OF COMMUNICATION, 3 hours credit**  
Examination of psychological factors underlying speech comprehension, the speaker's adjustment to an audience, and the attitudes, beliefs, and predispositions of listeners toward the appeal of the spoken word. Lecture 3 hours. Prerequisite: Speech 3633 or 9 hours of Psychology and/or Sociology, or departmental permission.
- 4772 **TEACHING SPEECH IN THE SECONDARY SCHOOL, 2 hours credit**  
Study of the basic program of speech in the secondary schools; organization of materials, procedures, and techniques of instruction. Visitation and observation of the teaching situation. Lecture 2 hours. Prerequisite: Departmental permission and 20 hours Speech-Drama.

## TECHNOLOGY

Roy Byrd, Assistant Professor and Department Chairman  
 Associate Professor: Spradley;  
 Assistant Professors: Cottingham, Hicks, Jones, Sutherlin;  
 Instructors: Kervin, Mathis, Scott.

## Data Processing

- 1013 INTRODUCTION TO DATA PROCESSING, *3 hours credit*  
 Survey of the industry; keypunching and sorting operation; terminology; programming in the BASIC language utilizing interactive terminals; computer capabilities and effects on business and society. Lecture 3 hours.
- 1023 RPG PROGRAMMING, *3 hours credit*  
 Report program generation as it is applied to business applications. Lecture 2 hours, laboratory 2 hours.
- 1063 DATA PROCESSING MATH, *3 hours credit*  
 Fundamentals of linear systems, matrices, determinants, linear programming, logic and Boolean algebra. Lecture 3 hours. Prerequisite: Math 1213.
- 2001-3 SPECIAL PROBLEMS IN DATA PROCESSING, *1-3 hours credit*  
 Assigned study projects which will include topics not covered in detail in the Data Processing curricula and based on student needs. Laboratory 3-9 hours. Prerequisite: Sophomore standing or departmental permission.
- 2033 SYSTEMS CONCEPTS, *3 hours credit*  
 Understanding the data processing function through design of input and output systems requirements and systems flowcharting. A study of the most commonly confronted data processing applications: payroll, inventory, billing, sales reporting, etc. Lecture 3 hours, Prerequisite: DP 1013.
- 2043 ASSEMBLY LANGUAGE PROGRAMMING, *3 hours credit*  
 Includes machine and assembly programming, debugging, housekeeping techniques, loops, indexing, and subroutines. Lecture 2 hours, laboratory 2 hours. Prerequisite: Data P 1024.
- 2053 COBOL PROGRAMMING, *3 hours credit*  
 Emphasis on elements of the language and the coding of business applications. 4 hours lecture-laboratory. Prerequisite: DP 1013.
- 2061-3 COMPUTER OPERATIONS, *1 to 3 hours credit*  
 Actual work assignments involving University computer operations. Enrollment limited to 10 students per semester. 32 clock hours per semester credit hour. Prerequisite: DP 2033.
- 2083 SYSTEMS ANALYSIS, *3 hours Credit*  
 Feasibility study, problem definition, study of existing systems, new systems requirements, designing new systems, cost analysis, selling the systems, implementation, charting, forms design. Lecture 3 hours. Prerequisite: DP 2033 or concurrent enrollment.



- 2112 **FORTRAN PROGRAMMING, 2 hours credit**  
Elements of FORTRAN IV programming language with emphasis on using the computer as a tool. 3 hours lecture-laboratory. Prerequisite: Math 1213.
- 2173 **ADVANCED ASSEMBLY LANGUAGE PROGRAMMING, 3 hours credit**  
Assembly language programming for RCA Spectra 70 and IBM 360 computers. Includes use of the commercial instruction set and fixed point arithmetic. Lecture 2 hours, laboratory 2 hours. Prerequisite: Data P 2043 or departmental approval.
- 3023 **FACILITIES MANAGEMENT, 3 hours credit**  
Site planning, preparation and layout. Facility and data security, job scheduling, library maintenance, supervision of data processing personnel, and job control language. Lecture 3 hours. Prerequisite: DP 2033.
- 3043 **MANAGEMENT INFORMATION SYSTEMS, 3 hours credit**  
Management of information systems ranging from serial sequential files to large-scale direct access data base systems. Communication networks with on-line data collections and information retrieval. Lecture 3 hours. Prerequisite: DP 2033.
- 3053 **ADVANCED COBOL PROGRAMMING, 3 hours credit**  
Advanced COBOL Programming techniques involving file processing and systems programming. Lecture 2 hours, laboratory 2 hours. Prerequisites: DP 2033 and DP 2053.
- 3082 **ADVANCED PROGRAMMING PROBLEMS, 2 hours credit**  
Student is assigned a particular design problem in which they decide on the type of computer needed, card design, file organization, and writes the program using Cobol as the basic language, arithmetic sub-routines in Fortran and input-output routines in machine and/or assembly language. Laboratory 6 hours. Prerequisite: Concurrent enrollment in Data Processing 3074.

### Design

- 1013 **ENGINEERING GRAPHICS I, 3 hours credit**  
The fundamentals of engineering graphics with emphasis on drafting and sketching techniques. Lecture 1 hour, laboratory 4 hours.
- 1023 **ENGINEERING GRAPHICS II, 3 hours credit**  
Orthographic projection in solution of problems of the point, line, and plane; projections, intersections, and surface development of solids; working drawings, and graphic analysis. Lecture 1 hour, laboratory 4 hours. Prerequisite: Design 1013 or equivalent.
- 1032 **PRODUCT PLANNING AND ESTIMATING, 2 hours credit**  
Fundamentals of cost estimating for building or production designs. Includes consideration of facilities, equipment, personnel, and current materials as related to job or product cost. Plant layout and product designs are analyzed. Lecture 1 hour, laboratory 2 hours.
- 1052 **INDUSTRIAL FLUID POWER, 2 hours credit**  
Elementary fluid mechanics based on valves, cylinders, pumps, and piping standards. Fluid motors, basic circuits symbols, industrial components, and commercial systems are stressed. Lecture 2 hours.
- 1072 **TOOL DESIGN, 2 hours credit**  
A study of machine shop practices, foundry, and forging procedures; with an introduction to jig and fixture design. Lecture 1 hour, laboratory 3 hours. Prerequisite: Design 1013.

- 2001-3 **SPECIAL PROBLEMS IN DESIGN, 1-3 hours credit**  
Assigned study projects which will include topics not covered in detail in the drafting curricula and based on student needs. Laboratory 3-9 hours. Prerequisite: Sophomore standing or departmental permission.
- 2013 **ARCHITECTURAL DESIGN I, 3 hours credit**  
The study and development of plans and details that are devoted to the representation of residential structure. Lecture 1 hour, laboratory 4 hours. Prerequisite: Design 1023.
- 2073 **INDUSTRIAL ILLUSTRATION, 3 hours credit**  
The study of basic procedures used by industry to make three dimensional drawings. Drawing devoted to the actual industrial methods and problems for a better understanding of industrial needs. Lecture 1 hour, laboratory 4 hours. Prerequisite: Design 1023.
- 2102 **MATERIALS TESTING, 2 hours credit**  
Testing materials for compression, tension, shear, hardness, and physical characteristics. The tests are run on wood, steel, aluminum, non-ferrous metals, concrete, plastic and various connections of these materials. Lecture 1 hour, laboratory 2 hours.
- 2123 **SURVEYING, 3 hours credit**  
Measurement of distance, compass surveying, leveling, use of transit, standia survey, topography, triangulation and land surveys. Lecture 2 hours, laboratory 3 hours. Prerequisite: Math 1613 or concurrent enrollment.
- 2163 **STRUCTURAL DESIGN, 3 hours credit**  
The design of and determination of the size, the shape, and the function of structural members. The analytical and graphical solutions of structural problems utilizing architectural and machine elements. Lecture 3 hours, laboratory 2 hours. Prerequisite: Design 1013, Design 2102 and Math 1715.
- 3004 **MACHINE DRIVES AND LINKAGES, 4 hours credit**  
Plane motion analysis of machine elements such as linkages, cams, gears, and drives. The dynamics of rotating machine elements. Lecture 3 hours, laboratory 2 hours. Prerequisite: Math 1613 and concurrent enrollment in Physics 1114.
- 3024 **ARCHITECTURAL DESIGN II, 4 hours credit**  
The study of design and engineering features of building construction which have an important bearing on safety, durability, and comfort of buildings and similar structures. Lecture 2 hours, laboratory 4 hours. Prerequisite: Design 2013.
- 3034 **MACHINE DESIGN, 4 hours credit**  
The designing of machinery that is composed of a combination of certain machine elements. The solutions of the problems of transmitting power by utilizing elements such as gears, pulleys, cams, etc. Lecture 4 hours, laboratory 2 hours. Prerequisite: Design 2163.
- 4013 **COMPUTER-AIDED GRAPHICS AND DESIGN, 3 hours credit**  
Application and use of FORTRAN, BASIC and Assembly language programs for production of graphic output and design criteria data. Laboratory exercises will require solution of graphic, structural, and machine design problems. Lecture 1 hour, laboratory 4 hours. Prerequisite: 22 semester credit hours in design drafting or departmental permission.

## Electronics

- 1003 **APPLIED ELECTRICITY AND MACHINES, 3 hours credit**  
The study of electric circuits and machines, includes dc and ac motors and generators. For non-electronic technology majors. Lecture 2 hours, laboratory 2 hours. Prerequisite: Math 1613 or concurrent enrollment.
- 1014 **ELECTRICITY, 4 hours credit**  
Elementary principle of electricity covering basic electric units, Ohm's law, Kirchhoff's Laws, a-c and d-c circuit solutions, magnetisms and electrical measuring instruments. Lecture 3 hours, laboratory 4 hours. Prerequisite: Math 1213 or concurrent enrollment.
- 1024 **NETWORK ANALYSIS, 4 hours credit**  
A study of equivalent circuits, resistance networks, impedance networks and coupled circuits. Lecture 3 hours, laboratory 4 hours. Prerequisite: Electronics 1014 and Math 1613 or concurrent enrollment.
- 1054 **INTRODUCTION TO ELECTRONICS, 4 hours credit**  
A study of the static characteristics of vacuum tubes and semiconductor devices with elementary applications in amplifiers and power supply. Lecture 3 hours, laboratory 4 hours. Prerequisite: Electronics 1014 or concurrent enrollment.
- 2001-3 **SPECIAL PROBLEMS IN ELECTRONICS, 1-3 hours credit**  
Guidance in independent work. Assigned study projects which will include topics not covered in detail in the electronics curricula and based on student needs. Laboratory 3-9 hours. Prerequisite: Sophomore standing and departmental permission.
- 2014 **ELECTRONIC AMPLIFIERS, 4 hours credit**  
The analysis and design of multistage transistor and vacuum tube amplifiers including compensation techniques and feedback. The study of power supplies and audio devices. Lecture 3 hours, laboratory 4 hours. Prerequisite: Elect. 1054 or equivalent.
- 2044 **COMMUNICATION CIRCUITS, 4 hours credit**  
The study of transmitters and receivers including resonant circuits, coupled circuits, r-f voltage amplifiers, r-f power amplifiers, oscillators, A.M. and F.M. modulation and demodulation, transmission lines, antennas and wave propagation. Lecture 3 hours, laboratory 4 hours. Prerequisite: Electronics 2014 or equivalent.
- 2064 **PULSE AND SWITCHING CIRCUITS, 4 hours credit**  
A study of nonsinusoidal waveforms, switching circuits, pulse generating and waveshaping circuits with applications involving industrial electronic systems. Lecture 3 hours, laboratory 4 hours. Prerequisite: Electronics 1024 and 1054.
- 2112 **ROTATING MACHINERS, 2 hours credit**  
Principles of motors, generators and other rotating devices as energy converters. Included are DC, single-phase, and three-phase systems. Lecture 1 hour, laboratory 2 hours. Prerequisite: Elect. 1024.
- 3033 **AUTOMATIC CONTROL SYSTEMS, 3 hours credit**  
An introduction to linear automatic control systems. The analysis of elementary servomechanisms and process control systems. Lecture 2 hours, laboratory 2 hours. Prerequisite: Electronics 2014.
- 3043 **TELEVISION SYSTEMS, 3 hours credit**  
Principles of television, color and closed systems. Lecture 2 hours, laboratory 2 hours. Prerequisite: Elect. 2044.

- 3123 **ELECTRONIC PRINCIPLES OF COMPUTERS, 3 hours credit**  
The elements of both Analog and Digital computers and the organization of these elements in a functional computer; primarily involving the use of electronic circuits to perform calculations. Lecture 2 hours, laboratory 2 hours. Prerequisite: Electronics 2064.
- 4013 **ELECTRONIC DESIGN AND ANALYSIS, 3 hours credit**  
The analysis, design and/or modification of electronic systems. The feasibility study, writing specifications, cost analysis, environmental testing and quality control. Lecture 2 hours, laboratory 2 hours. Prerequisite: 24 credit hours in electronics or departmental permission.

### Law Enforcement

- 1013 **INTRODUCTION TO LAW ENFORCEMENT, 3 hours credit**  
Rules and regulations inherent to the preservation of personal property rights. Lecture 3 hours.
- 1023 **POLICE PATROL AND SERVICES, 3 hours credit**  
A study of the duties and requirements of police patrol and of services rendered in the enforcement of laws. Lecture 3 hours. Prerequisite: Law Enforcement 1013.
- 1033 **CRIMINAL LAW AND ADMINISTRATION OF JUSTICE, 3 hours credit**  
A review of criminal law. A general program and the administration of justice as exists in the municipality under the state's statutory laws. The rights and privileges of the accused and jurisdiction of violators. Lecture 3 hours.
- 1043 **CRIMINAL EVIDENCE, 3 hours credit**  
The study of the rules and regulations concerning the gathering of evidence in criminal cases. Lecture 3 hours. Prerequisite: Law Enforcement 1013.
- 2001-3 **INDEPENDENT STUDY IN LAW ENFORCEMENT, 1 to 3 hours credit**  
Assigned study projects which will include topics not covered in detail in the Law Enforcement curricula and based on students needs. Prerequisite: Sophomore standing and departmental permission.
- 2013 **POLICE ETHICS, 2 hours credit**  
The study of the moral standards, philosophy and systems of conduct of the Law Enforcement profession. Lecture 2 hours. Prerequisite: Law Enforcement 1013.
- 2053 **POLICE TRAFFIC FUNCTIONS, 3 hours credit**  
A study of rules, regulations and procedures necessary for the handling of traffic. Lecture 3 hours. Prerequisite: Law Enforcement 1013.
- 2063 **CRIMINAL INVESTIGATION, 3 hours credit**  
Methods and techniques of gathering, preserving, and presenting all types of criminal evidence. Scientific and laboratory aids used in criminal detection and investigation. Preservation and use of direct evidence perceived by witnesses. Lecture 3 hours. Prerequisite: Law Enforcement 1043.
- 2083 **ORGANIZATION OF LAW ENFORCEMENT, 3 hours credit**  
The administration of a police agency with special emphasis on organization, management, planning, training, budget, and the selection, supervising and training of personnel. Lecture 3 hours. Prerequisite: Law Enforcement 1013 or permission.

- 3013 **SPECIAL PROBLEMS IN LAW ENFORCEMENT, 3 hours credit**  
A study of the Police image, contemporary ethics, police unions, anti-police organizations, sabotage, guerrilla warfare, police in the political structure, community relations, organized crime, demonstrations, riots and unlawful assembly, civilian review boards, and sensitivity training. Lecture 3 hours. Prerequisite: 14 hours of Law Enforcement or Departmental permission.
- 3023 **CORRECTIONAL PROCESS, 3 hours credit**  
The study of probation, parole and pardons. Topics include Conditions of Probation, Probation Supervision, Revocation, Parole Release, Parole Hearing, Parole Supervision and Revocation. Lecture 3 hours. Prerequisite: Law Enforcement 1013 and 1033.
- 3033 **JUVENILE PROCEDURE, 3 hours credit**  
A history of the Juvenile Court system and control measures in the United States. This includes the family and background of the juvenile and preventive measures. Lecture 3 hours. Prerequisite: Law Enforcement 1033.

### Technology

- 3013 **TECHNICAL REPORT WRITING, 3 hours credit**  
Basic principles of organizing informal material into a clear, concise and accurate industrial report. Topics include letters, memos, minutes of meetings, trip reports, progress reports, proposals and technical reports. Lecture 3 hours. Prerequisite: Junior standing or Departmental permission.
- 3023 **PRINCIPLES OF SUPERVISION, 3 hours credit**  
General principles of Industrial supervision. Topics include Supervisor's functions, human resources and motivation, worker attitudes, and the art of leadership. Lecture 3 hours. Prerequisite: Junior standing or Departmental permission.
- 4003-6 **DIRECTED OBSERVATION AND ON-THE-JOB INTERNSHIP, 3 to 6 hours credit**  
Directed observation and on-the-job internship served in an area directly related to the student's technical speciality. The job should be approved by the major advisor prior to starting the internship. The intern's supervisor is requested to complete an evaluation form concerning the student's job performance. The form will be filed with Chairman of the Technical Department. Laboratory 6-12 hours. Prerequisite: Technology 3013 and 3023 or Departmental permission.
- 4012 **UNION-MANAGEMENT RELATIONS, 2 hours credit**  
The structure, history, and goals of labor unions. A study of Federal and State labor relations laws, current issues in collective bargaining and arbitration. Lecture 2 hours. Prerequisite: Tech 3023 or departmental permission.
- 4033 **INDUSTRIAL ORGANIZATIONS, 3 hours credit**  
A study of the factors that affect the organization and management of an industrial enterprise. Topics include the internal organization, managerial controls, management's functions, wage and salary administration, job evaluations, and budgetary controls. Lecture 3 hours. Prerequisite: Junior standing or departmental permission.
- 4491-3 **INDEPENDENT STUDY IN TECHNOLOGY, 1 to 3 hours credit**  
Assigned research, reading, and reports based on the needs of the individual student and directly related to the student's technical speciality. Individual guidance will be provided by a faculty member. Prerequisite: Junior standing or departmental permission. The total number of hours earned in Independent Study may not exceed four.

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