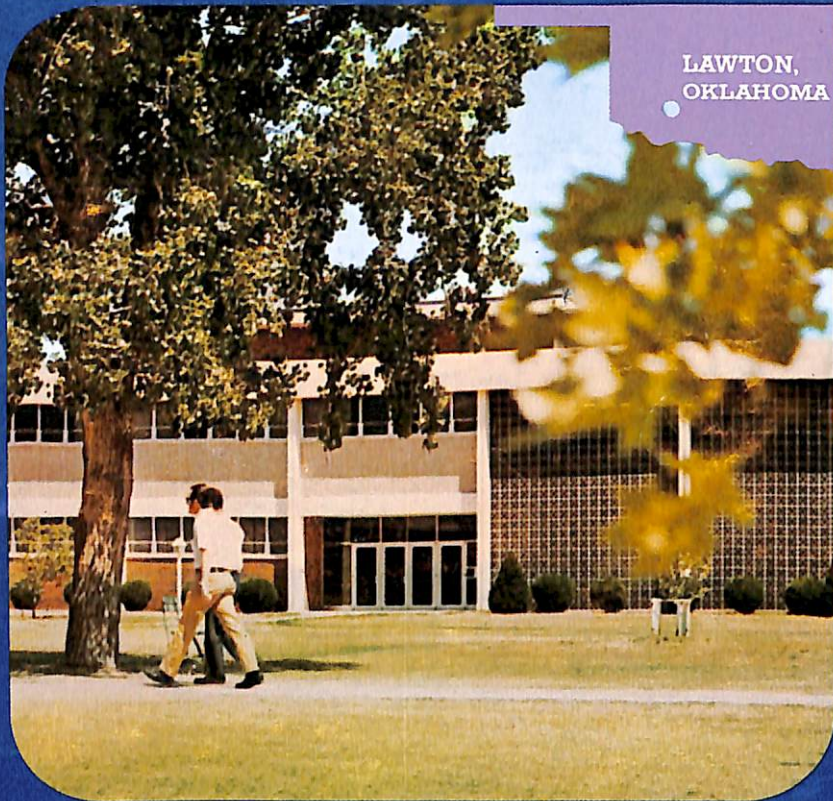


CAMERON



LAWTON,
OKLAHOMA

Cameron College Catalog 1971-1972

Cameron College



Annual Catalog

2800 Gore Boulevard
LAWTON, OKLAHOMA 73501

CALENDAR FOR 1971-72

FIRST SEMESTER 1971-72

Enrollment	August 24, 25
Classes Begin	August 27
Holiday (Labor Day)	September 6
Holiday (Thanksgiving)	November 25, 26
Semester Examinations	December 16-22 inclusive
Semester Ends	4:00 P.M. December 22

SECOND SEMESTER 1971-72

Enrollment	January 17, 18
Classes Begin	January 20
Holiday (Washington's Birthday)	February 21
Spring Vacation	Begins 4:30 P.M. March 24 Ends 7:30 A.M. April 3
Semester Examinations	May 12-19 inclusive
Graduation	8:00 P.M. May 19
Semester Ends	4:00 P.M. May 19

SUMMER TERM 1972

Enrollment	June 5
Classes Begin	June 6
Holiday (Independence Day)	July 3, 4
Graduation	8:00 P.M. July 31
Term Ends	4:00 P.M. July 31

TENTATIVE CALENDAR FOR 1972-73

FIRST SEMESTER (1972-73)

Enrollment	August 23-24
Classes Begin	August 28
Thanksgiving Vacation	Begins 4:30 P.M. November 22 Ends 7:30 A.M. November 27
Semester Examinations	December 18-22 inclusive
Semester Ends	4:00 P.M. December 22, 1972

SECOND SEMESTER (1972-73)

Enrollment	January 15-16
Classes Begin	January 18
Spring Vacation	Begins 4:30 P.M. March 16 Ends 7:30 A.M. March 26
Semester Examinations	May 11-18 inclusive
Graduation	8:00 P.M. May 18, 1973
Semester Ends	May 18, 1973

SUMMER TERM (1973)

Enrollment	June 4, 1973
Classes Begin	June 5, 1973
Holiday (Independence Day)	July 4, 1973
Graduation	8:00 P.M. July 27, 1973
Term Ends	4:00 P.M. July 27

EVENING SCHOOL CALENDAR (1971-72)

FIRST FALL SESSION (1971)

Enrollment	7:00-8:30 P.M. August 23
Classes Begin	7:00 P.M. August 26
Holiday (Labor Day)	September 6
Classes End	October 18

SECOND FALL SESSION (1971)

Enrollment	7:00-8:30 P.M. October 19
Classes Begin	7:00 P.M. October 21
Holiday (Thanksgiving)	November 25
Classes End	December 16

WINTER SESSION (1972)

Enrollment	7:00-8:30 P.M. January 11
Classes Begin	7:00 P.M. January 17
Holiday (Washington's Birthday)	February 21
Classes End	March 9

SPRING SESSION (1972)

Enrollment	7:00-8:30 P.M. March 13
Classes Begin	7:00 P.M. March 16
Spring Break	March 24-April 3
Classes End	May 15

SUMMER SESSION (1972)

Enrollment	7:00-8:30 P.M. May 30
Classes Begin	7:00 P.M. June 1
Holiday (Independence Day)	July 3 & 4
Classes End	July 27

TENTATIVE EVENING SCHOOL CALENDAR (1972-73)

FIRST FALL SESSION (1972)

Enrollment	7:00-8:30 P.M. August 21
Classes Begin	7:00 P.M. August 24
Classes End	October 16

SECOND FALL SESSION (1972)

Enrollment	7:00-8:30 P.M. October 17
Classes Begin	7:00 P.M. October 19
Holiday (Thanksgiving)	November 23
Classes End	December 14

WINTER SESSION (1973)

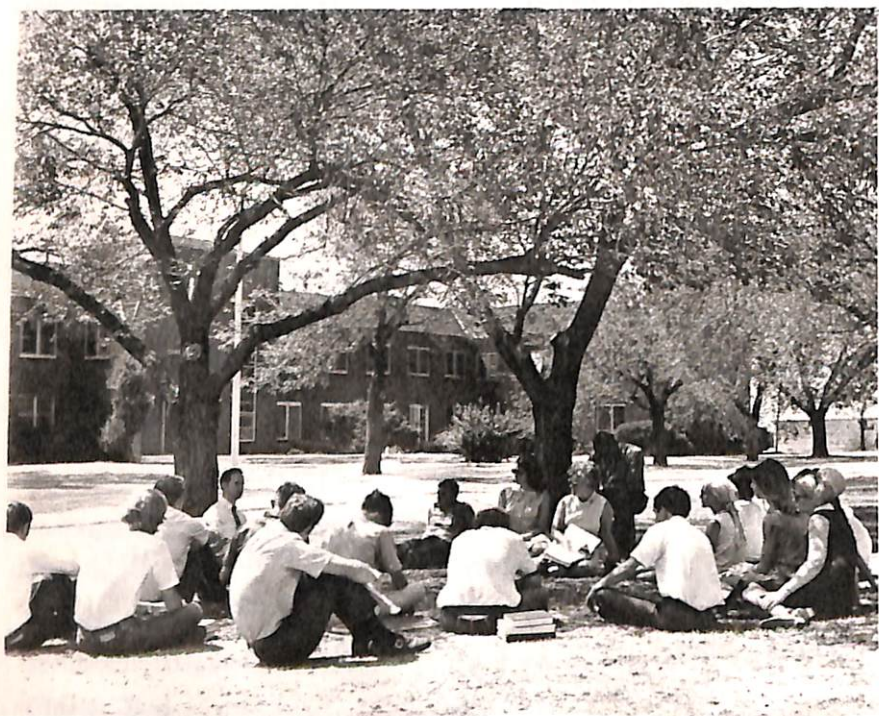
Enrollment	7:00-8:30 P.M. January 11
Classes Begin	7:00 P.M. January 15
Classes End	March 8

SPRING SESSION (1973)

Enrollment	7:00-8:30 P.M. March 12
Classes Begin	7:00 P.M. March 15
Spring Break	March 19-23
Classes End	May 14

SUMMER SESSION (1973)

Enrollment	7:00-8:30 P.M. May 31
Classes Begin	7:00 P.M. June 4
Session Ends	July 26



II. BOARDS OF REGENTS

OKLAHOMA STATE REGENTS FOR HIGHER EDUCATION

E. T. DUNLAP, <i>Chancellor</i>	Oklahoma City
G. ELLIS GABLE, <i>Chairman</i>	Tulsa
JOHN J. VATER, JR., <i>Vice-Chairman</i>	Enid
MRS. JEWEL DITMARS, <i>Secretary</i>	Muskogee
GOODWIN BROADDUS, <i>Assistant Secretary</i>	Ponca City
HARRY P. CONROY.....	Duncan
EXALL ENGLISH.....	Lawton
DONALD S. KENNEDY.....	Oklahoma City
JOSEPH W. MORRIS.....	Tulsa
WILLIAM T. PAYNE.....	Oklahoma City

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

FOREST McINTIRE, <i>Secretary</i>	Oklahoma City
HERMAN E. DUNCAN, <i>Chairman</i>	Muskogee
ROBERT H. SMITH, <i>Vice-Chairman</i>	Hobart
ARMON H. BOST.....	Tulsa
JOHN C. BURWELL.....	Idabel
W. D. FINNEY.....	Fort Cobb
RONALD FORD.....	Helena
BILLY RAY GOWDY.....	Oklahoma City
BURKE W. HEALEY.....	Davis



III. ACCREDITATION

Cameron College is fully accredited by the Oklahoma State Regents for Higher Education and because of this credits earned at Cameron are regularly accepted by other colleges and universities throughout the nation.

The Teacher Education and Certification programs at Cameron College are accredited by the Oklahoma State Board of Education, effective June 1, 1970. This allows approved graduates to be recommended for teaching certificates in the elementary and secondary schools of Oklahoma.



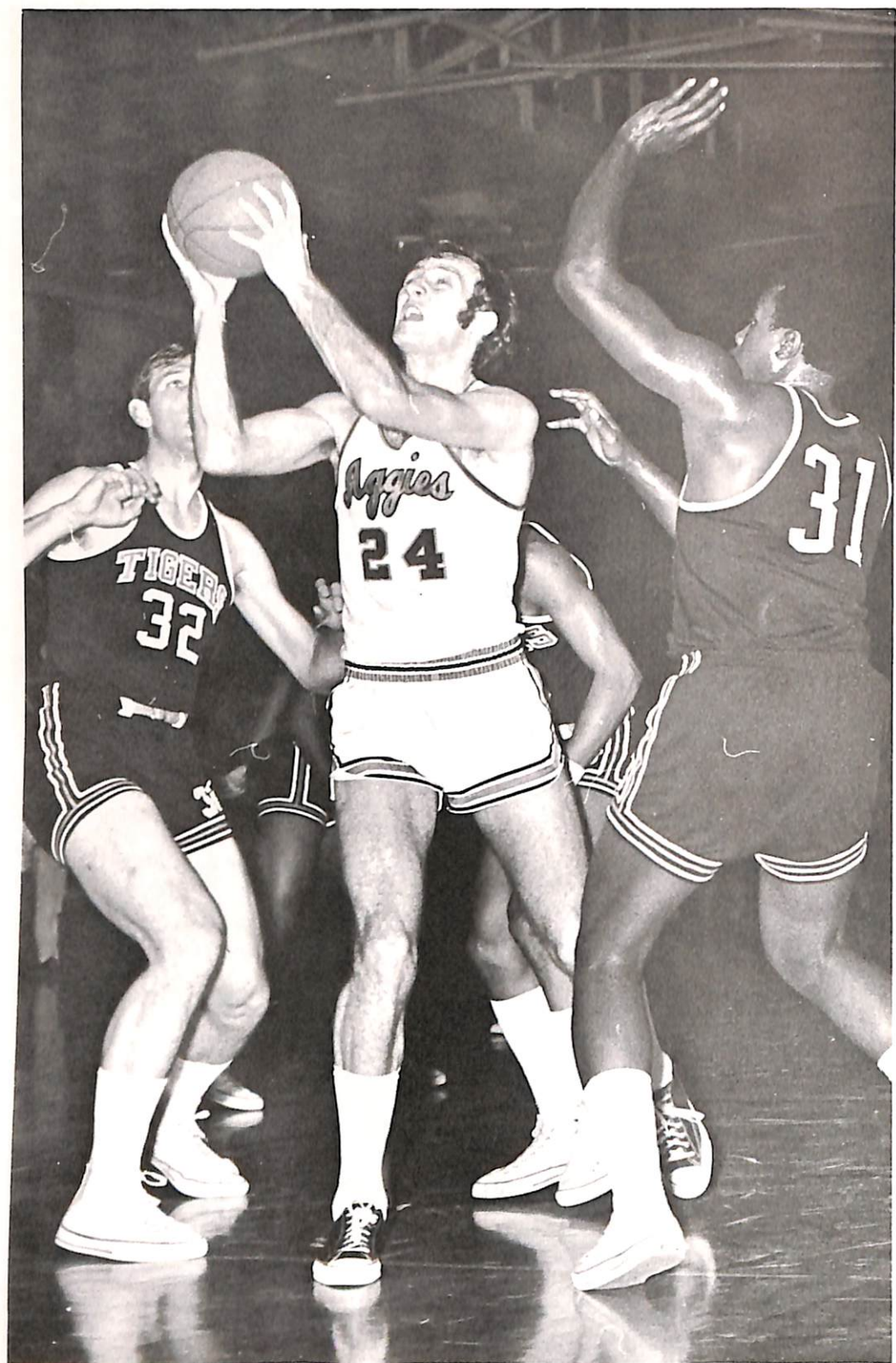
IV. FACULTY AND STAFF

ADMINISTRATION

DON OWEN.....	<i>President</i>
RICHARD MURRAY.....	<i>Dean of the College</i>
CARROLL ROGERS.....	<i>Assistant to the Dean of the College</i>
FREEMAN McKEE.....	<i>Institutional Research</i>
CHARLES ELKINS.....	<i>Dean of Student Services</i>
BETTY ROUNDTREE.....	<i>Associate Dean of Student Services</i>
RICHARD MOCK	<i>Associate Dean of Student Services</i>
ED MEECE.....	<i>Business Manager</i>
FLAKE TODD.....	<i>Assistant Business Manager</i>
JOHN STERLING.....	<i>Fiscal Officer</i>
RAYMOND CHAPMAN.....	<i>Director of Admissions and Records</i>
JACK SEYMOUR.....	<i>Assistant to the Director of Admissions and Records</i>
ROBERT RICHEY.....	<i>Director of Financial Aids</i>
JAMES BYRN.....	<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>

AUXILIARY ENTERPRISES

BENNIE LEE.....	<i>Bookstore and Student Union Manager</i>
GEORGE PORTMAN.....	<i>Residence Hall Complex Director</i>
LENELL PORTMAN.....	<i>Assistant Residence Hall Complex Director</i>



FACULTY AND STAFF

- ALLEN, MARY K., (1967) *Language Arts*, B.S., Wayland Baptist College; M.Ed., University of Oklahoma.
- AMYX, JACK F., (1965) *Business*, B.S., M.S., Oklahoma State University.
- ANDRUS, CHARLES, (1967) *Social Science*, A.B., Park College; B.D., Louisville Presbyterian Theological Seminary; Th.M., Th.D., Ph.D., International Free Protestant Episcopal University.
- BASOVSKY, RUDOLPH, (1968) *Physical Education*, B.S., Adams State College; M.S., Utah State College.
- BEAVERS, BLANCHE, (1942), *Business*, B.S., Oklahoma College for Women; M.C.E., University of Oklahoma.
- BENSON, KEITH, (1968) *Education and Psychology*, B.S. East Central; M.S., Ed.D., Oklahoma State University.
- BOONE, RICHARD, (1970) *Physical Education*, B.S., M.T., Southwestern State College.
- BOYER, WILLIAM, (1971) *Music*, B.M. and M.M., University of Michigan.
- BREWER, BURNEY H., (1959) *Social Science*, B.S., Central State College; M.Ed., University of Oklahoma.
- BROOKS, NANCY, (1969) *Business*, B.B.E., M.B.E., University of Oklahoma.
- 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.
- BYRD, ROY, (1965) *Chairman, Technical*, B.S., East Central State College; M.S., Oklahoma State University.
- BYRN, JAMES, (1969) *Director of Library Services*, B.A., M.L.S., University of Oklahoma.
- CALDWELL, KATHLEEN, (1968) *Physical Education*, B.S., Oklahoma College for Women; M.Ed., University of Oklahoma.
- CAMPBELL, GAIL, (1970) *Music*, B.A., Arkansas Polytechnic College; M.M.E., North Texas University; D.M.E., University of Southern Mississippi (pending).
- CARTER, MILLARD M., (1955) *Physics*, B.S., M.Ed., University of Oklahoma.
- CHAPMAN, RAYMOND, (1969) *Director of Admissions and Records*, B.S., Southwestern State College; M.Ed., University of Oklahoma.
- COOPER, MICKEY, (1964) *Biology*, B.S., East Central State College; M.S., Oklahoma State University.
- CORNELISON, GAYLE L., (1971) *Language Arts*, B.A., California State College; M.A., University of Kansas (Ph.D. pending).
- COSGROVE, DALE G., (1968) *Business*, B.A., M.B.A., University of Arkansas.
- CRAMER, JUDITH, (1971) *Nursing*, B.S., University of Illinois
- CRANE, JOE, (1969) *Physical Science*, B.S., M.S., Ph.D., Oklahoma State University.
- DELVER, BOB, (1969) *Director of Maintenance*, B.S., Central State College; M.A., University of Oklahoma.

- DORSCH, ROBERT, (1970) *Language Arts*, B.A. and M.A., Kansas State Teachers College.
- DUNCAN, JOHNNY D., (1965) *Technical*, B.S., Kansas State College of Pittsburg; M.Ed., University of Illinois.
- EDGEWORTH, SHARON KAY, (1971) *Music*, B.M., M.M., University of Oklahoma.
- EISCHEN, KENNETH, (1970) *Social Science*, B.A., M.A., Mankato State College.
- ELKINS, CHARLES R., (1962) *Dean of Student Services*, B.S., Oklahoma State University; M.Ed., University of Oklahoma.
- ELLIOTT, HAROLD M., (1970) *Social Science*, B.A., M.A., San Francisco State College.
- ENGBERG, GRETA, (1970) *Nursing*, B.S., Texas Woman's University; R.N., Deaconess Hospital School of Nursing, Buffalo, N.Y.
- ENGLEMAN, LYEVA, (1970) *Music*, B.F.A., Oklahoma State University; M.A., Eastman School of Music.
- EPPELSON, WAYNE E., (1968) *Biology*, B.S., M.S., Oklahoma State University.
- EWBANK, KATHRYN, (1968) *Language Arts*, B.A., M.A., University of Oklahoma; Ph.D. pending, University of Oklahoma.
- FARMER, LOYAL, *Mathematics*, B.S., Northeastern State College; M.S., Florida State University; Ed.D., North Texas State University.
- FARRAR, ARTHUR, (1968) *Chairman, Business*, B.S., Southwestern State College; M.A., Colorado College of Education; Ed.D., University of Oklahoma.
- FINKE, WILLIAM C., (1966) *Physical Science*, B.S., Southeastern State College; M.T., Southwestern State College.
- FLETCHER, WILLIAM, (1964) *Music*, B.M., M.M., University of Michigan.
- GABRIEL, WILMER, (1970) *Nursing*, B.S., Prairie View A&M College.
- GAGE, ALFRED, (1969) *Language Arts*, B.A., Lewis and Clark College; M.A., University of Oregon.
- 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., University of Oklahoma.
- GOLDSCHMIDT, JAMES, CAPTAIN, (1970) *Military Science*, B.S., University of Wisconsin.
- GRAY, THOMAS A., (1966) *Language Arts*, B.A., Milligan College; M.T., Southwestern State College.
- HAJEK, FRANCIS B., (1968) *Mathematics*, B.S., Peru State College; M.S., Ed.D., Oklahoma State University.
- 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.
- HEACOCK, KENNETH, (1968), *Biology*, B.S., Kansas State College of Pittsburg; M.S., Kansas State College.

- HEGEMANN, VICTOR, (1966) *Mathematics*, B.A., Wayne State College; M.N.S., University of Oklahoma.
- HICKS, DOROTHY, (1970) *Technical*, B.S., Southwestern State College; M.Ed., University of Oklahoma.
- HICKS, J.C., (1970) *Language Arts*, B.S., B.A., Southwestern State College; M.A., University of Oklahoma; Ph.D., University of Oklahoma.
- HINES, JESSIE MAY, (1946) *Language Arts*, B.A., Central State College; M.A., Oklahoma State University.
- HOPKINS, HOWARD R., (1968) *Biology*, B.S., Penn State University; M.S., and Ph.D., Oklahoma State University.
- HORACEK, PERRY, (1970) *Technical*, B. of Arch. En., Oklahoma State University.
- HUCKABAY, GARY, (1971) *Mathematics*, B.S., Southwestern State College; M.A., University of Missouri.
- JACKSON, GORDON R., MAJOR, (1971) *Military Science*, B.S., Western Kentucky.
- JAYNES, ANNE M., (1971) *Librarian*, B.A., Carroll College; M.L.S., University of Washington, Seattle.
- JENKINS, REX D., CAPTAIN, (1970) *Military Science*, B.S., Utah 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, GAIL, (1969) *Technical*, B.S., M.S., Oklahoma State University.
- KENNEDY, IRA E., (1965) *Agriculture*, B.S. and M.S., Oklahoma State University.
- KINZER, JOE, JR., (1966) *Technical*, B.S., M.S., Oklahoma State University.
- KRUGER, DELORES, (1970) *Chairman, Nursing*, B.S., South Dakota State University; M.S., Texas Woman's University.
- KWIE, WILLIAM, (1969) *Physical Science*, B.S., Bandung Institute of Technology; M.A., Ph.D., University of Texas.
- LAIR, MARILYN J., (1970) *Language Arts*, B.S., Oklahoma College of Liberal Arts, Chickasha; M.B.E., University of Oklahoma (Ph.D. pending).
- LANE, TOMMY G., (1970) *Language Arts*, B.S., Midwestern University; M.T., Central State College.
- LARGE, FARRELL A., (1970) *Physical Education*, B.S., East Central State; M.Ed., East Central State.
- 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.
- LEEDS, JO ALICE, (1969) *Art*, B.F.A., M.F.A., University of Texas.
- LYNN, CLARK, JR., (1966) *Language Arts*, B.S., U.S. Military Academy; M.Ed., University of Oklahoma.
- 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.
- McDONALD, JAMES E., (1967) *Physical Science*, B.S., Central State College; M.C.S., University of Mississippi.
- McKEE, FREEMAN, (1971) *Institutional Research*, B.S., Panhandle A&M College; M.S. and Ed.D., Oklahoma State University.
- McKELLIPS, KAREN, (1968) *Education and Psychology*, B.S., Southwestern; M.S., 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.
- McLEAN, FLOYD W., COLONEL, (1970) *Military Science*, B.A., St. Benedict's College.
- McLEMORE, J.D., (1967) *Director of Placement*, B.S., M.T., Southwestern State College.
- 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.
- MAXWELL, DONALD EDWARD, (1969) *Music*, B.M., Friends University; B.A., Colgate University; M.M., University of Oklahoma.
- MEECE, ED, (1967) *Business Manager*, B.S., Southwestern State College; M.Ed., Western State College of Colorado.
- MEECE, EDNA JO, (1965) *Language Arts*, B.A., Southwestern State College; M.A., Western State College of Colorado.
- MERAZ, EMMITT, (1959) *Mathematics*, B.S., Southeastern State College; M.E., University of Oklahoma.
- MERRITT, MARTHELLE, (1967) *Home Economics*, B.S., M.Ed., University of Oklahoma.
- MILLER, DAVID H., (1970) *Social Science*, B.A., M.A., University of Utah; Ph.D., University of New Mexico.
- MILLER, LYNNE DIANE, (1969) *Language Arts*, B.A., M.A., University of Oklahoma.
- MILLER, RAYMOND, (1970) *Physical Education*, B.A., Southwestern State College; M.E., University of Oklahoma.
- MOCK, RICHARD, (1971) *Associate Dean of Student Services*, B.A., Harding College, Searcy, Arkansas; M.S., Southern Illinois University; Ed.D., Oklahoma University (pending).
- MORRIS, JAMES KENT, (1968) *Mathematics*, B.S., Southwestern State College; M.T., Central State College.

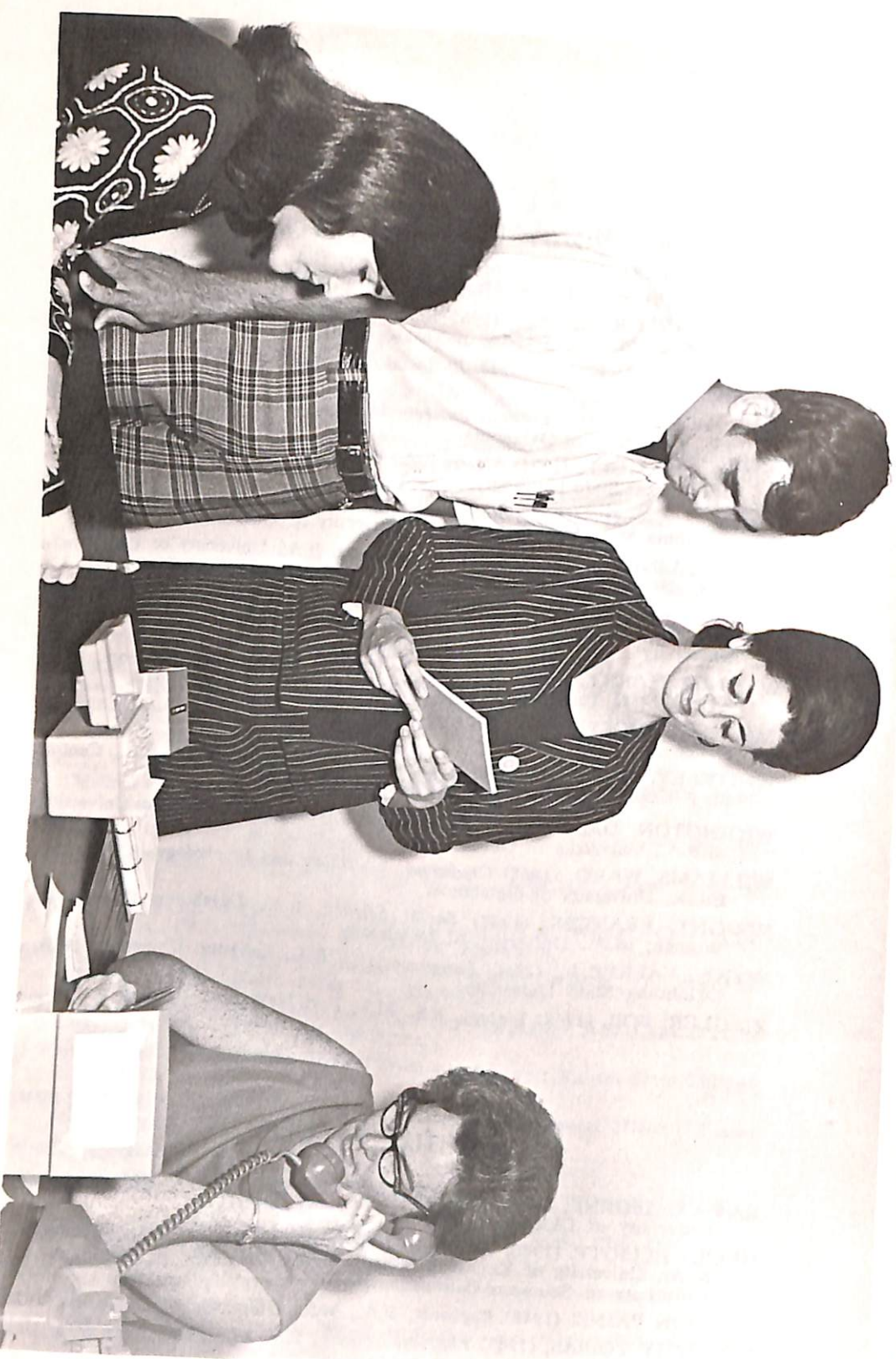
- MOSS, WILLIAM WAYNE, (1968) *Social Science*, B.A., Oklahoma State University; J.D., Oklahoma City University.
- MURRAY, RICHARD, (1969) *Dean of the College*, B.S., Southeastern State College; M.Ed., Ed.D., University of Oklahoma.
- NALLEY, ELIZABETH ANN, (1969) *Physical Science*, B.S., Northeastern State College; M.S., Oklahoma State University.
- NORRIS, JAMES ROBERT, (1970) *Social Science*, B.A., Centenary College; M.A., University of Denver; Ph.D., Washington State University.
- 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.
- OSWALT, MALCOLM, (1946) *Technical*, B.A., Southwestern State College; M.I.Ed., University of Oklahoma.
- 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) *Language Arts*, B.S., State College of Arkansas; M.A., University of Arkansas.
- PEVETO, SIDNEY K., (1969) *Education and Psychology*, B.S., M.S., North Texas State University; Ph.D., East Texas State University.
- PHILLIPS, EDDIE, (1967) *Mathematics*, B.S., M.E., University of Oklahoma; M.A., Louisiana State University.
- POGUE, DWIGHT, (1971) *Art*, B.F.A., Kansas State College; M.F.A., University of Oklahoma.
- PUGH, NEVA, (1969) *Education and Psychology*, B.S., Southwestern State College; M.Ed., Ed.D., Oklahoma University.
- QUINTEN, B. T., (1969) *Chairman, Social Science*, 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.
- RADCLIFF, STANLEY, (1968) *Music*, B.A., M.A., Colorado State College.
- RADER, JAMES R., (1969) *Education and Psychology*, B.S., M.S., Oklahoma State University.
- RAINEY, JIMMY A., SERGEANT FIRST CLASS, *MS III Instructor*.
- RICHARDS, RALPH, (1970) *Social Science*, B.A., M.A., University of Oklahoma.
- RICHEY, ROBERT, (1970) *Director of Financial Aids*, B.S., M.T., Southwestern State College.
- RICHTER, WILLIAM L., (1970) *Social Science*, B.A. M.A., Arizona State University; Ph.D., Louisiana State University.
- RIECKE, CAROLL, (1970) *Mathematics*, B.S., University of Kansas; M.S., Ph.D., University of Houston.
- ROACH, FRANKLIN R., MASTER SERGEANT, *Principle Drill Instructor and MS III Instructor*.

- ROGERS, CARROLL W., (1967) *Assistant to the Dean of the College*, B.S., Oklahoma State University; M.T., Southwestern State College; Ed.D., University of Oklahoma.
- ROUNDTREE, BETTY L., (1967) *Associate Dean of Student Services*, B.S., East Central State College; M.Ed., University of Oklahoma.
- ROSENBERGER, DIANNE, (1970) *Librarian*, S.M., Simmons College.
- SARE, DALE IRVIN, (1970) *Technical*, B.S., Oklahoma State University.
- SCOTT, EDMUND T., (1971) *Language Arts*, B.A., Western New Mexico University; M.A., Texas Tech University.
- SEALS, THELMA JOLLY, (1959) *Physical Science*, B.S., M.S., University of Oklahoma; M.Ed., University of Oklahoma.
- SEAMANS, ELDON L., (1968) *Social Science*, B.A., Maryville College; B.D., McCormick Theological Seminary; Ph.D., International Free Protestant Episcopal University.
- SEYMOUR, C. JACK, (1965) *Assistant to the Director of Admissions and Records*, B.A., Kearney State College; M.T., Central State College.
- SHAHAN, BILL, (1967) *Chairman, Physical Education*, B.S., M.T., Central State College.
- SHAW, WANDA, (1968) *Art*, B.S., M.S., Kent State University.
- SIMPSON, PHILLIP M., (1971) *Social Science*, B.A. and 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) *Librarian*, B.S., Oklahoma College for Women; M.L.S., University of Oklahoma.
- SMITH, ARTHUR, (1969) *Music*, B.M., M.M., Cincinnati Conservatory of Music.
- SMITH, CHARLES WAYNE, (1970) *Social Science*, B.A., William Carey College; M.A., Ph.D., University of Southern Mississippi.
- 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.
- SNIPES, HELEN, (1970) *Language Arts*, B.S. and M.A., Central Missouri State; Ph.D., pending.
- SPANN, LINDA, (1971) *Nursing*, B.S., Oklahoma University.
- SPESSARD, MILTON L., (1964) *Librarian*, B.B.A., M.L.S., University of Oklahoma.
- SPRADLEY, TERRY P., (1966) *Technical*, B.A., Oklahoma City University; M.S., Oklahoma State University.
- STANLEY, GEORGE E., (1970) *Language Arts*, B.A., M.A., Texas Tech University.
- STANTON, JIMMY H., (1968) *Physical Science*, B.S., Delta State College, Ph.D., University of Mississippi.

- 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.
- TERRY, TAYLOR BROOKS, (1965) *Language Arts*, B.A., Southern Methodist University; M.A., University of Texas.
- THOMPSON, JACK L., (1968) *Business*, B.S., B.A., M.B.A., University of Arkansas.
- TODD, FLAKE, (1969) *Assistant Business Manager*, B.A., Central State College; M.E., University of Oklahoma.
- TRIMBLE, SAMUEL, (1971) *Music*, B.A., University of South Florida; M.M.E., North Texas State University.
- TYLER, JACK D., (1967) *Biology*, B.S., Southwestern State College; M.S., Oklahoma State University; Ph.D., University of Oklahoma.
- VERGES, LINDA KAY, (1969) *Language Arts*, B.A., University of Oklahoma; M.A., North Texas State University.
- 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.
- WALKER, ADOLPHUS, CAPTAIN, (1971) *Military Science*, B.A., Cameron College.
- WHITELEY, RALPH W., (1969) *Director of Public Relations*, B.A., Central State College; M.A., Western Colorado State College.
- WIGINGTON, DANNY L., (1969) *Business*, B.S., Oklahoma State University; M.B.A., University of Oklahoma.
- WILLIAMS, WARD, (1968) *Chairman, Education and Psychology*, B.S., M.Ed., Ed.D., 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., Oklahoma State University.
- ZIEGLER, BOB, (1968) *Biology*, B.S., M.S., Fort Hays State College.

EMERITUS FACULTY

- RAY CLAIBORNE, (1967) *Social Science*, B.S., Central State College; M.Ed., University of Oklahoma. 1970
- HELEN ELLIOTT, (1940) *History and Government*, B.A., McPherson College; M.A., University of Kansas; Graduate Study, University of Oklahoma and University of Southern California. 1970
- GORDON PAINE, (1948) *Registrar*, B.A., M.S., University of Oklahoma. 1970
- DOROTHY TOBIAS, (1943) *Physical Science*, B.S., M.S., Oklahoma State University. 1971



V. HISTORY – FACILITIES – FUNCTIONS

HISTORY

Cameron College 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 College 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 into 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 Cameron was notified that the name of the institution was officially Cameron College.

FACILITIES

The *Library Building*, a two-story brick air-conditioned building, was completed in the spring of 1964. It houses the college Library which has a collection in excess of 75,000 volumes, numerous pamphlets, and bound periodicals. The Library subscribes to 605 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.

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

The *College Auditorium and Music Classroom Building*, a modern two-story, fireproof structure north of the General Classroom Building, was completed in the spring of 1953 and has a seating capacity of 800. A classroom wing of the building houses offices and a band room.

The *Physical Sciences Building* 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.

The *General Classroom Building*, a modern three-story brick fireproof structure, constructed in 1929 with an addition built in 1949,

is situated in the center of the campus. The Departments of Nursing, Language Arts, and Social Science and many faculty offices are located here.

The *Gymnasium*, 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 operatype seats. The plant contains a large basketball court, a weights room, boys' and girls' dressing rooms, and offices for the Physical Education staff.

The *Military Science-Technical Building* was completed in August 1968. It 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.

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 Agriculture, Business, Home Economics, and the Modern Language laboratories.

A new two-story, air-conditioned *Administration Building* with full basement was completed in the summer of 1969. It houses the President's Office, Dean of the College's Office, Business Office, Dean of Students' Office, Registrar's Office, Financial Aids Office, and Data Processing.

Shepler Center, consisting of two ten-story, air-conditioned dormitories, will house a total of 1172 single students. A part of this complex is a two-story, air-conditioned building housing a cafeteria for center students, living quarters for Complex Director, and living room and recreation facilities where center occupants may entertain their friends and relatives. This facility was completed in August, 1969.

FUNCTIONS

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

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.

The Philosophy and Purposes of the College are embodied in the Functions set forth above.





VI. ADMISSION, ACADEMIC STANDARDS, AND GRADUATION

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. Special provision is made for admission of applicants of mature age (over twenty-one years).
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 College 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 March 28, 1967)

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 non-resident 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.*

The resident status of a married woman is that of her husband if they are living together; however, a wife not living with her husband may establish separate domicile. A nonresident woman who marries a resident of Oklahoma may have resident status at the beginning of

the next semester following such marriage [providing the husband continues to be an Oklahoma resident.] A resident woman who marries a nonresident shall keep her resident status as long as she remains continuously in attendance [fall and spring semesters] as a fulltime student [at least 12 hours in a semester, or 6 hours in a summer, as above]. A nonresident man who marries a resident woman does not thereby automatically gain resident status. However, if a nonresident man marries a resident woman, such man may declare Oklahoma as his domicile at the beginning of the next semester following such marriage [provided she actually has resided in Oklahoma continuously since the marriage]. If a resident woman marries an alien who is ineligible for American citizenship, she shall not by that act alone be deemed to have alienated her Oklahoma residence.

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 21 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.

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. *Proof of Residence.*

The burden of proof of residence shall be upon the applicant. Birth in Oklahoma, direct descent from Oklahoma forebears or alumni of Oklahoma institutions of higher learning, registration for voting, purchase of property, payment of taxes, or employment in Oklahoma are not necessarily by themselves proof of residence in the state for the purpose of enrolling as a resident student in a state-supported institution of higher learning.

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 college; or if the student is attending classes, for dismissal from the college with forfeiture of any credit earned.

AMERICAN COLLEGE TESTS

Cameron College 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 College has assembled regarding each student, and the information is used in counseling with students concerning their educational and vocational plans.

RE-ADMISSION

Any former Cameron student who has not attended Cameron during the previous academic year must file another Application for Admission form just as would a new student. This application should be submitted at least one month (and preferably earlier) prior to the beginning of the semester in which the student plans to re-enter.

IN SUMMARY

Each student seeking to enter Cameron College for the first time must:

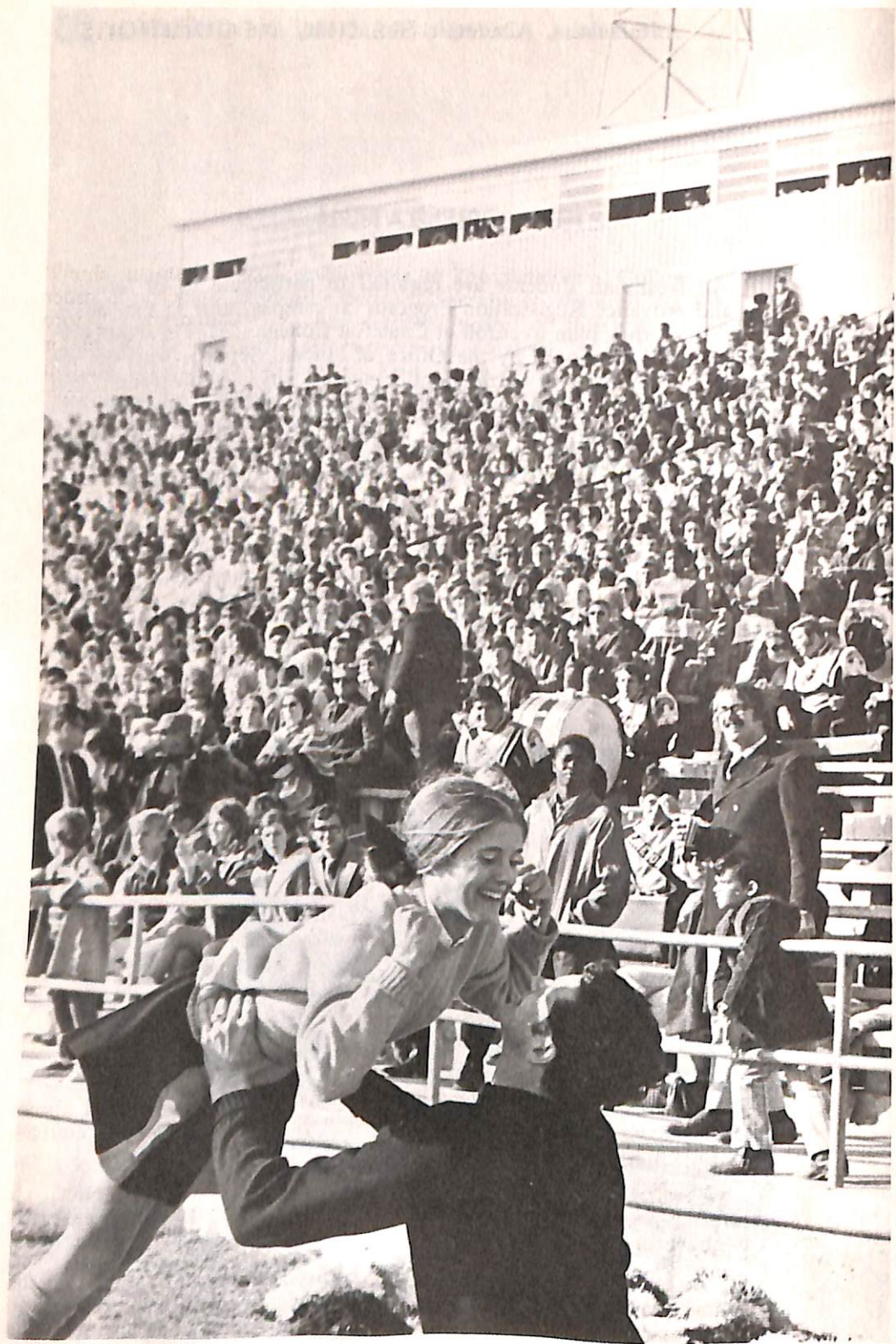
1. Present to the Admissions Office an official transcript of his work completed in previous schools whether high school or college.
2. Have taken the American College Tests and have those scores on file in the Admissions Office.
3. Send the "Application for Admission" form to the Admissions Office.
4. Have the "Physical Examination" form filled in by his own doctor and on file in the Admissions Office. (See Student Health Services in Section VII.)

ORIENTATION

All freshman students are required to participate in an Orientation and Advance Registration Program on campus prior to the semester in which they plan to enroll at Cameron College. 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.

During the Orientation Program, each student will have an academic counselor 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 College. Request for additional information should be addressed to the Office of Student Services, Cameron College.





Academic 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 his choice of courses and approve both.

Course Loads—A normal academic load for the semester is sixteen semester hours. Special permission is required for any load above eighteen hours. Students who are working more than twenty hours weekly should reduce their class load proportionately.

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 if the student receives full Veteran's benefits.

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.

Selective Service Status—Students may request that academic information be forwarded to the local draft board by requesting the Admissions Office to have the information forwarded.

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 ordinarily 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 fees are paid.

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. The student must place \$20.00 on deposit with the business office prior to receiving a pre-enrollment packet. The \$20.00 deposit is non-refundable but is credited to that term's tuition.

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

2. 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.

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. 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.

RETENTION STANDARDS

Students are expected to attend all meetings of the classes in which they are enrolled. Those students reported for excessive absences will be dropped from the class upon the recommendation of the instructor and their semester grade in that course will be an "F."

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 College because of poor grades is not eligible to apply for re-admission until a minimum of one full semester has elapsed.

DISCIPLINE

The reasonable supposition is that persons applying for admission to college are ladies and gentlemen, and every consideration will be shown as such, until by their own acts they shall forfeit the confidence reposed in them. Rules of government and regulations as to their conduct will, of course, be necessary; yet the character of these will be such as should secure conformity thereto and active cooperation on the part of the student body in aiding and carrying out such requirements as may be deemed necessary. The rules and regulations of the college are published in this catalog and in the official Student Handbook.

Flagrant cases of misconduct, after review by disciplinary officers, may be referred to the committee on student conduct, a joint committee of students and faculty, for recommendations as to the type of disciplinary action to be taken.

When a student is suspended for disciplinary reasons this fact shall be recorded on his records. The grades recorded for him for that semester shall be determined in the same way as if he 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 the student whose work averages above passing but who, because of illness or some other unavoidable circumstances, may not complete a course at the end of a semester or summer term. Students may, with permission of the appropriate department chairman, re-enroll in the course at Cameron the next semester or term the course is offered and upon satisfactory completion have the "I" in the incomplete course changed to a "W."

GRADE REPORTS

Semester grade reports are mailed to the parents of all unmarried students under the age of twenty-one. 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 College 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.

DROPPING A COURSE OR WITHDRAWAL FROM COLLEGE

1. A student desiring to withdraw completely from school should 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 "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 instructor and deposit it at the Business Office.
(b) A student desiring to add courses or rearrange his schedule in any way must secure the proper card at the Admissions Office, have it approved by his 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. A student who ceases to attend a class without officially withdrawing will be denied further attendance of the course and will be awarded a grade of "F."
6. The deadline for changing courses will be no later than the end of the second full week of instruction. 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.

DEGREES OFFERED

Cameron College offers the following degrees:

- Bachelor of Arts
- Bachelor of Science
- Associate in Science

Students may also complete pre-professional programs of study at the college.

TWO-YEAR TECHNICAL PROGRAMS

Technical programs are offered in Data Processing, Drafting, Electronics, Law Enforcement, and a two-year Registered Nurse Course. These lead to an Associate in Science degree.

REQUIREMENTS FOR GRADUATION

Bachelors Degree Programs:

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 as outlined in Section XII of the catalog 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.
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.
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. Degree students are required to participate in graduation exercises.

REQUIREMENTS FOR GRADUATION

Associate Degree Programs:

To secure an Associate Degree from Cameron College 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 College.
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.



R.O.T.C. (Reserve Officer Training Corps)

Four-Year Program

Cameron College 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 young man 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 young men in a balanced course of officer training, both theoretical and practical, which will qualify them to perform the duties of commissioned officers 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.

While participating in the advanced course, each student is paid \$50 per month from the effective date of his enrollment until completion of the course. Additionally, during the summer between his 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 \$300 for the six week period.

Two-Year Program

For those students unable 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. Credit may be received for the Basic Summer Camp by enrolling in MS 3000-3. Further information on the two-year program may be obtained from the Assistant 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 men 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 \$50 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 Assistant Professor of Military Science.

Flight Program

The student who enrolls in the advanced course and wants to learn to fly can do so at no personal expense by enrolling in the Army ROTC Flight Program. Those students who meet the physical requirements and have the mental aptitude will receive approximately 35 hours of ground 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 Assistant Professor of Military Science.

SPECIAL INFORMATION FOR VETERANS

Cameron College is fully accredited by the Veterans' Administration. Veterans follow the same procedures for admission, enrollment and payment of fees as do other students. In addition they will observe the following procedures.

1. Disabled veterans should contact a Counselor from the Veterans' Administration before they make application for training under the G.I. Bill. If they desire they may choose to train under a different law from the one that established the regular G.I. Bill training program. But once the veteran has made a choice, he may not change from one law to another, even though there would be a financial advantage in such a change.
2. Veterans not previously in training under the G.I. Bill will obtain from the Veterans' Administration Regional Office, Muskogee, Oklahoma, 74401, a Certificate of Eligibility and Entitlement to attend Cameron. Application for this Certificate should be made at least by the time Application for Admission to the college is made.
3. Veterans previously in training under the G.I. Bill at another college must obtain from the Veterans' Administration a supplemental

Certificate of Eligibility and Entitlement to attend Cameron. Application for this supplemental Certificate must be made before enrollment at Cameron. Otherwise the veteran will lose a part of the compensation that would normally be due him.

4. For regular semesters the veteran must enroll in at least 12 hours if he is to draw full compensation. Those veterans enrolled in 9-11 semester hours inclusive will be considered as enrolled three-fourth time and will draw three-fourths of full compensation. Those enrolled in 6-8 hours inclusive will draw one-half of full compensation. A veteran enrolled in 4-5 hours inclusive will receive less than $\frac{1}{2}$ compensation but more than $\frac{1}{4}$, and for 3 hours or less will receive $\frac{1}{4}$ compensation.

Students receiving benefits under the G.I. Bill must report to the Clerk for Veteran Affairs in the Admissions Office immediately after all fees have been paid at the Business Office. The student's enrollment is not considered to be complete until the report is made.

Veterans Administration telephone number is (Lawton) 357-2400.

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	\$10.50 per semester hour
plus 50¢ per semester hour Student Union fee	
Non-residents of Oklahoma	27.00 per semester hour
plus 50¢ per semester hour Student Union fee	
Extension Course 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	6.00 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 and Industrial Arts	Cost of materials used
Science Laboratory courses	Cost of breakage
Student Identification Card and Services	1.00 per semester
Advanced Standing Examination	5.00
American College Testing Program (Residual Test)	7.50
General Educational Development Test	5.00
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
Graduation Fee:	
Associate Degree	6.00
Bachelors Degree	10.00
Stadium Fee (all full-time students)	5.00 per semester

REFUNDS

The following refund policy has been established, applicable to General Fees, when a student withdraws from school:

For the semester:

Withdrawal during first two weeks of classes, 80% refund.

Withdrawal during third and fourth weeks of classes, 50% refund.

Withdrawal during fifth and sixth weeks of classes, 25% refund.

Thereafter, no refunds.

For the summer session:

Withdrawal during first week of classes, 80% refund.

Withdrawal during second week of classes, 50% refund.

Withdrawal during the third week of classes, 25% refund.

Thereafter, no refunds.

Evening Classes, no refund.

Individual Classes, no refund.

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 College.
3. Withdrawal or dismissal from the College.
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 College 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 college 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 students employed by the college.
3. Those students who are the recipients of athletic scholarships.

Room and board costs for students living in the dormitories are as follows:

For new 10-story air-conditioned dormitories, Per semester \$416

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 college dining hall. The college 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 room deposit will be forfeited.



VII. STUDENT SERVICES

GUIDANCE AND COUNSELING

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

The guidance process begins with the first contact with the student through a field representative at the student's home school. When the student enrolls, a teacher-advisor is assigned to each student in his major field. In addition, the Dean of Students, his staff, and advisors are available to assist students in solving any problems that arise, or in determining the best course of action. They are available to counsel the student in the personal, vocational, and academic problems and situations which arise.

GUIDANCE SERVICES

The common and personal problems of Cameron students are the concern of Cameron College. The guidance program provides the following services to students:

(a) Analysis. Through the program the student is assisted in getting all the facts about himself from test results, cumulative records, and other means of identifying potentialities and interests.

(b) Information. Through the program, facts about the student's environment, vocations, educational opportunities, scholarships, and loan funds are made available to the student.

(c) Orientation. Through the program the student is assisted in becoming acquainted with the school program, the physical plant, campus organizations, rules and regulations of the school.

(d) Counseling. Through an advisor-advisee program that utilizes all the instructors as counselors, the college helps each student to understand himself better and to develop his educational and vocational plans.

JOB PLACEMENT SERVICES

The Placement Office at Cameron College 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 College graduate who requests these services. In addition, the Placement Office serves as a clearinghouse 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

A complete testing program is provided for all students in the Office of Student Services. Appointments for testing should be made with the Director of Counseling and Testing, and tests will be administered at the convenience of the student. Tests are available in the areas of aptitude, intelligence, interest, achievement, attitude, personal problems, personality and reading.

FINANCIAL AIDS

SCHOLARSHIPS

School Scholarships

The Oklahoma State Regents for Higher Education have authorized each institution in the state system of higher education to give scholarships consisting of fee remission in an amount not to exceed one-half of one percent of the institution's operating budget.

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 College, P.O. Box 6338, Lawton, Oklahoma 73501.

Departmental Scholarships

Several departments have scholarships available. They include:

Vocal Music
Instrumental Music
R.O.T.C.
Pre-Medical

Intercollegiate Sports Scholarships

1. Football
2. Basketball
3. Baseball
4. Track

Applicants should write to the Chairman of the Department in the area in which the scholarships are desired.

EMPLOYMENT

Student Employment

Cameron College offers employment to a limited number of students each year in the cafeterias, laboratories, offices, residence halls, and maintenance. While it is impossible to give employment to all students who apply, it is the policy 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 college 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 any student may earn per month from the college, 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 assigned task.

Wherever possible, students are assigned employment for which they are best suited. Please request student Employment Application Blanks from the Director of Financial Aids, Cameron College, Lawton, Oklahoma 73501.

College Work-Study Program

The Work-Study Program was established by the 88th Congress under Title I, Part C of Public Law 88-452, designated as the Economic

Opportunity Act of 1964. This program, nationwide in scope, provides money to the college for the employment, on a part-time basis, of worthy full-time students from "low income" families.

Application for part-time employment by the College under this program should be made to the Director of Financial Aids, Cameron College, Lawton, Oklahoma, 73501, on special application forms provided.

LOANS

Educational Opportunity Grants

Federal funds are available through Cameron College in form of Educational Opportunity 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 College, Lawton, Oklahoma 73501.

National Defense Student Loan Program

The National Defense Student Loan Program was established by the 85th Congress, under Title II of Public Law 85-864 designated as the National Defense Education Act of 1958 approved September 2, 1958. This program, nationwide in scope, provided low interest loans to students with special scholarship provisions for student borrowers who later enter public secondary and elementary teaching and public school administrative careers.

The following criteria are used by Cameron to determine who shall receive loans under this Act:

1. A student must be carrying at least one-half the full-time academic workload, as determined by the college.
2. If funds are insufficient to assist all qualified applicants in the amounts needed, preference will be given to the most needy students with apparent high academic achievement.
3. A student must meet the grade point retention standards as set forth by the Oklahoma State Regents for Higher Education.
4. The applicant must be a citizen or national of the United States.

5. Except in rare instances, student must not be making car or other installment payments.
6. The student must be of good general character and conduct which would indicate that he is not a poor financial risk.

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. The student applies for a loan at a bank which is participating in the program, and the lender makes the loan directly to the student.
2. The College certifies that the student is pursuing a full-time course of instruction, and the Oklahoma State Regents for Higher Education act as guarantor for the loan.
3. The Federal Government pays a portion of the interest on behalf of eligible students.

HOUSING AND BOARDING ARRANGEMENTS FOR STUDENTS

All students residing in college housing on the Cameron College Campus live in air-conditioned May Shepler Hall. This ultra-modern, ten-story, high-rise structure houses (on separate floors) both men and women students. All residents of the tower share common lounge and cafeteria areas. Food service in the Shepler cafeteria is included in the total cost of housing. A snack-bar is also provided within the Shepler housing complex.

May Shepler Hall is supervised by a professionally trained staff consisting of the Complex Director, Assistant to the Director, Residence Hall Directors, and Floor Counselors. All staff members live in the residence area for which they are responsible. Their responsibility includes supervision of the hall, providing counseling and referral services for residence students and providing leadership in the development of educational, cultural, social and athletic programs for residents. The Floor Counselor is a member of the staff and a full-time undergraduate student. The Counselors serve as helpful, interested persons who are concerned with the general welfare of students.



ACTIVITIES

Student Organizations

All regularly enrolled students of Cameron College 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 college 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 and their meeting schedules 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.

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 75,000 volumes, numerous pamphlets, and bound periodicals. The library subscribes to 605 current magazines, the *New York Times*, and 12 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 college postoffice is located in the Student Union.

EXTRA-CURRICULAR ACTIVITIES

Cultural Events—Cultural events at Cameron State Agricultural College 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 college.

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

Intramural Athletics—An extensive intramural program is carried on at Cameron. Students have the opportunity to participate in basketball, volleyball, horse shoes, tennis, and touch football.

Intercollegiate Athletics—Now included in the intercollegiate athletic program of Cameron are the sports of basketball, baseball, football, golf, and track.

HEALTH SERVICES

Full-time Cameron College 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 College 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 College 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 College requires that the parents of each student be required to sign an authorization to admit their son or daughter to a hospital in case of an emergency.

PUBLICATIONS

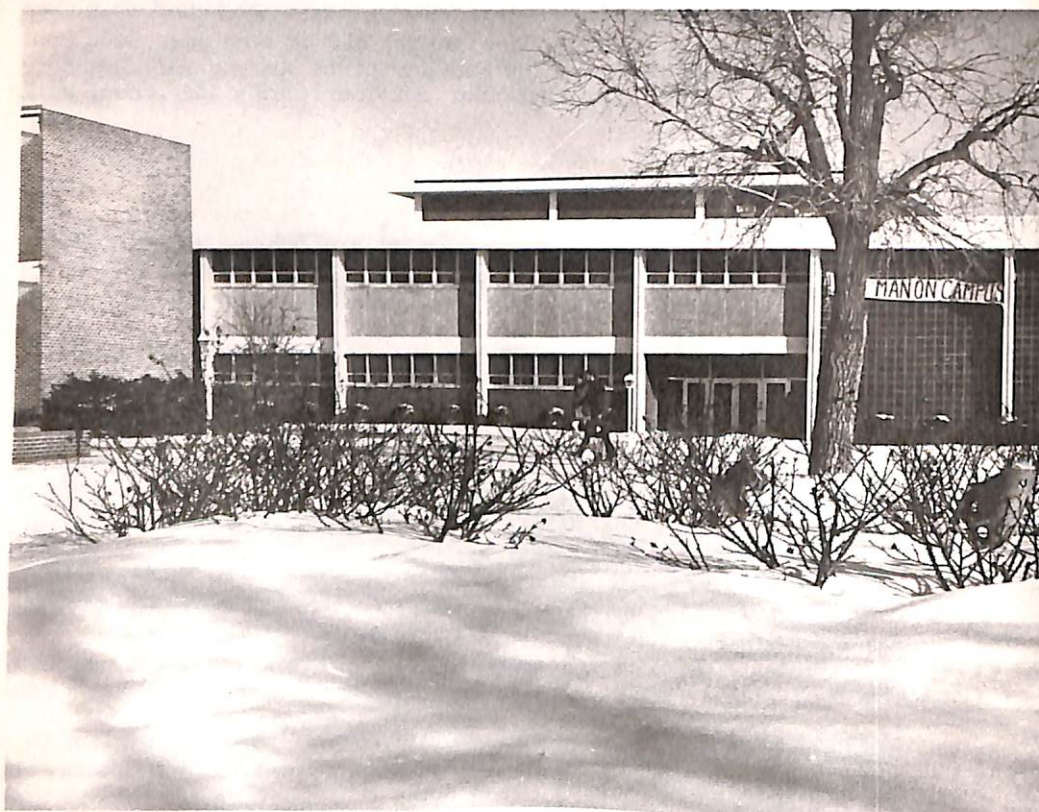
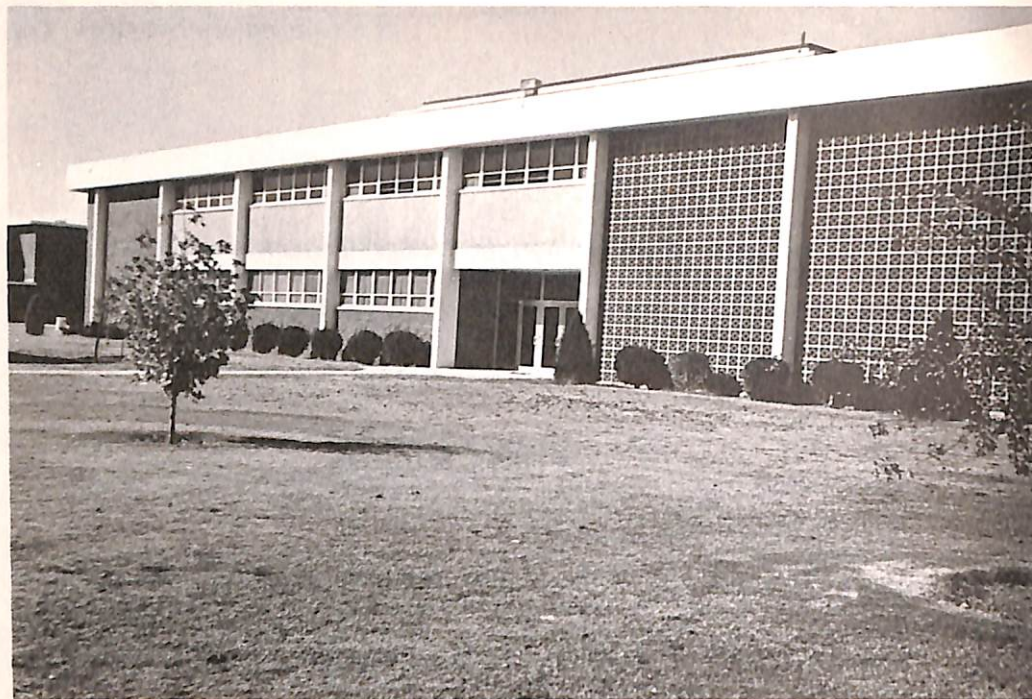
The College Newspaper

The *Cameron Collegian*, the official publication of the college, 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 College, supporting student and college activities, and providing training in journalism.

The College Yearbook

The *Wichita* is the college annual and is published each year. It is a permanent record of the activities of the student body, organizations, faculty, and extra-curricular activities during the school year.





VIII. EXTENSION STUDY

GENERAL PROVISIONS

1. A student may enroll for extension study if he has been formally admitted to the College, 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 the College, and such arrangement must be reported to the Admissions Office.
5. The fee for extension study is \$16.50 per semester hour. If a course is cancelled within four weeks after enrollment, refund is made as follows: 80% of fee refunded during first two weeks, 50% of fee refunded next two weeks.

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 College 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.



IX. SUMMER SESSION

ADMISSION

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

OFFERINGS

The same standard courses are offered in the summer session as in the September to May 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. Students who have a superior scholastic record may be granted permission to carry an additional hour in special cases.

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X. EVENING CLASSES

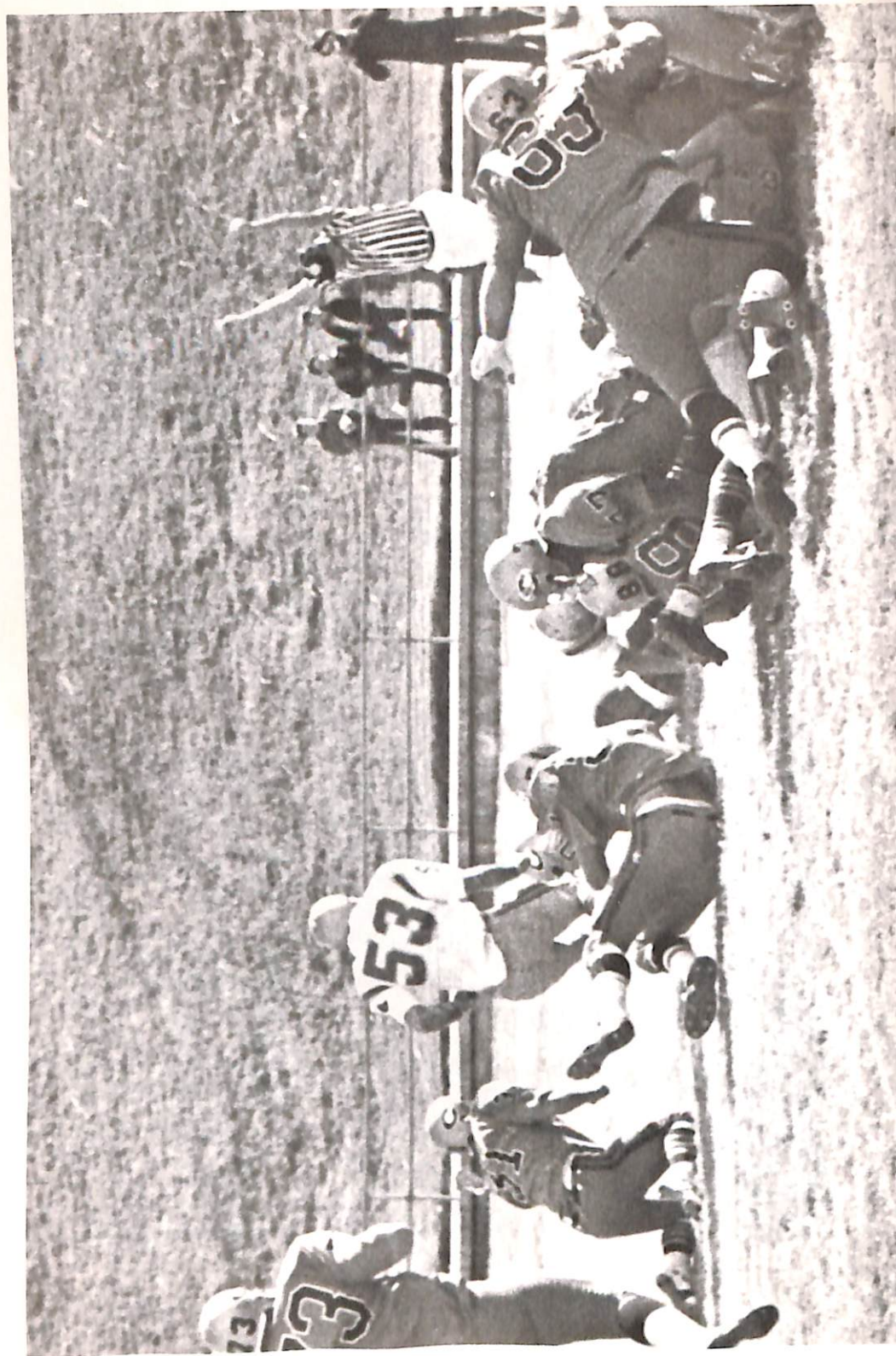
Two of the functions of Cameron College as defined by the Oklahoma State Regents for Higher Education are "To provide on-campus programs of adult and continuing education, both for degree credit and non-degree credit" and "To provide special programs of collegiate instruction suited to the needs of the military personnel at Fort Sill." To implement these functions the college has an extensive evening program. Classes are offered on an eight-and-one-half-week session and a limited number of classes are offered on the full semester schedule. The courses meeting on the shorter schedule meet twice each week from 7:00 P.M. until 9:40 P.M. generally on Mondays and Thursdays. The longer term courses meet once each week from 7:00 P.M. until 9:30 P.M. generally on Tuesdays.

Admission requirements to degree credit classes in the Evening Program are the same as for any other degree credit courses offered by the college. Application for admission to the college should be made at least two weeks in advance of enrollment night and transcripts of previous high school and college work are required. The only admission requirements for non-credit courses is that the person be an adult and have sufficient educational background to be able to profit from the course.

A minimum enrollment of ten people is required to form a class. Once a person enrolls for a class and the class materializes fees will not be refunded should it become necessary for the person to cease to attend the class. If an insufficient number enroll in a class, persons may transfer to another class or may have their fees refunded in full; full refunds will also be made for textbooks that must be returned.

Courses offered in the Evening Program are representative of those offered in the regular semesters and include work applicable toward a Bachelors Degree, toward the Associate Degree, toward other transfer programs, and work of an occupational nature.

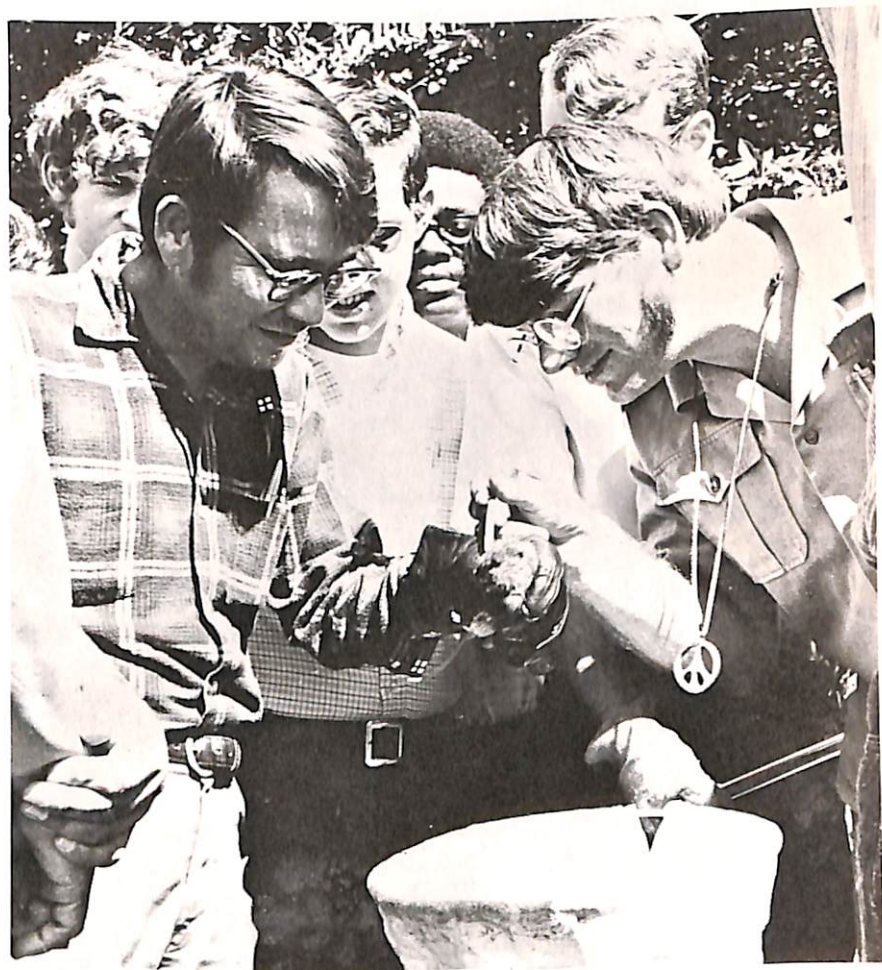
Fees are the same as those charged any other student of the college and are listed in this catalog under the heading of Fees and Expenses.

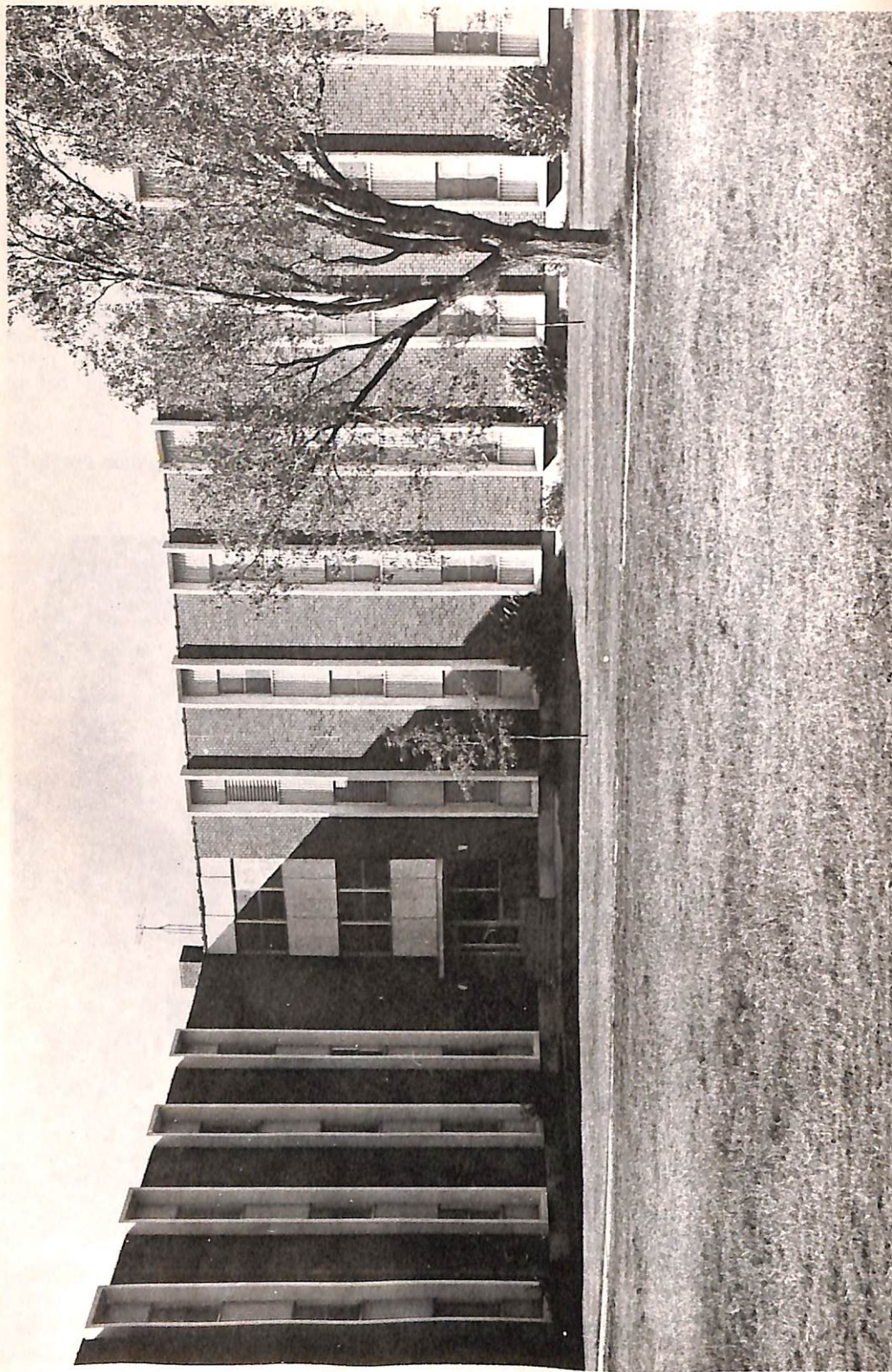


XI. CREDIT BY EXAMINATION

Cameron College uses the vehicle of Credit by Examination to award credit to prospective freshman students with superior high school achievement or students with knowledge of the subject matter through prior experience. The student desiring to receive credit in a particular course through examination must submit a formal application to the department offering the course. A test administration fee of \$5.00 is assessed for each examination administered. Upon successful completion of the examination the regular tuition must be paid before credit will be awarded.

Additional information and test application forms may be obtained from the Office of the Dean of Student Services.





XII. DEGREES AND REQUIREMENTS

Cameron College offers a Bachelor of Arts degree and a Bachelor of Science degree. A student may earn a Bachelor of Arts degree with a major in one of the following areas:

English

History

Mathematics

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

Music (with concentration in instrumental, piano, or vocal)

Speech-Drama

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

Biology (with concentration in Zoology or Botany)

Business (with concentration in Accounting, General Business, Economics or Business Education)

Business (following an Associate of Science degree in Data Processing)

Chemistry

Elementary Education

General Education (for Military Service Personnel only)

Health and Physical Education

Natural Science

A student may earn an Associate in Science Degree in one of the following areas:

Agricultural-Business

Data Processing

Drafting and Design

Electronics

Law Enforcement

Nursing

Cameron College offers teacher certification at the elementary, elementary-secondary, and secondary levels.

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.

CURRICULA OFFERED

1. Cameron offers a four-year curricula in Arts and Sciences leading to the degrees of Bachelor of Arts and Bachelor of Science. These curricula do not lead to teacher's certificates.

2. Cameron offers a four-year curricula leading to the degrees of Bachelor of Arts and Bachelor of Science with professional education requirements leading to an Oklahoma elementary, elementary-secondary, or secondary teacher's certificate. Completion of this curriculum involves formal admission of the student to professional work in teacher education.

3. Cameron offers two-year curricula leading to an Associate in Science degree. Cameron also offers two-year curricula in programs designed to transfer to other institutions. Degrees are not awarded in these areas.

TEACHER EDUCATION

The Teacher Education and Certification programs at Cameron College 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 College also holds associate membership in the American Association for Colleges of Teacher Education.

ADMISSION TO TEACHER EDUCATION

Students planning to enter teacher education programs are required to file formal application 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 following data are used by the Teacher Education Committee 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. The major advisor should be one of the three (3) references.
3. Each applicant must have the approval of his Introduction to Education 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 special conferences which members of the Teacher Education Committee may have with the student. These may be at the request of the student or called by the committee.
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 of the evaluation procedures described in points 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.

TRANSFER STUDENTS

Applications may be secured from the Office of Teacher Education. They will be evaluated on the following seven (7) points in accordance with the material that is provided by their previous college and after the completion of at least one semester of 2.0 or above work taken at Cameron College.

OKLAHOMA HISTORY REQUIREMENT

In addition to completing catalog requirements, credit in Oklahoma history is required for all standard certificates. For certification purposes, the Oklahoma history requirement may be satisfied in one of three ways: (1) college credit, (2) high-school credit, or (3) a passing grade made in the special State examination given at the county superintendent's office.

Retention in the Teacher Education Program

The student must maintain *Approved* status.

Admission to Student Teaching

1. The student must have approval of his major department. (Requirements are determined by the department.)
2. The student must have *Approved* status.
3. Admission to student teaching requires a 2.2 *grade point average* and a satisfactory rating of the applicant by the Teacher Education Committee.

4. Admission to student teaching is a formal step in the admission and retention program for teacher education. Students make application to the Director of Student Teaching during the junior year. 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 semester following student teaching.

GENERAL DEGREE REQUIREMENTS

The general degree requirements are listed in Section VI of the catalog. General education requirements and specific requirements of these degrees are listed on the following pages.

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 College. The work should be completed during the student's first two years. 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

1. Mathematics ----- 3 hours

Selected from any freshman level course 1013 Mathematics or above. Courses designed especially for teachers are not applicable.

2. Science ----- 8 hours

- (a) General Biology — 4 hours. Instead of General Biology, the student may complete 4 hours of General Zoology or General Botany.
- (b) General Physical Science — 4 hours. Instead of General Physical Science, the student may complete 4 hours of Physics, Chemistry, or Geology.

3. Communication Skills ----- 9 hours

(a) Freshman Composition

English 1113 or the equivalent 3 hours

English 1213 or the equivalent 3 hours

(b) Speech 1113 3 hours

4. Social Science ----- 9 hours

(a) Political Science 2013 3 hours

(b) History 2013 or 2023 3 hours

(c) History 1113 or 1123 3 hours

5. Humanities ----- 4-6 hours

(To be selected in any combination from the following:)

General Humanities 2114, 2224

Art 2212, 2313, 2323

Music Appreciation 2012, 2022

Music Literature 1212, 1222

Philosophy 1113, 2213

Literature 2543, 2653, 2773, 2883

6. Behavioral Science ----- 3 hoursPsychology 1113 or Family Relations 1023 or Sociology
1023 or Sociology 2013**7. Physical Activity* ----- 4-8 hours**(To be selected from any four enrollments in any combinations
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 full-time active service also fulfills this requirement when proper papers are presented to the Office of Admissions.*

8. General Education Electives

Sufficient to total a minimum of 50 hours must be chosen from:

Art, Biology, Business, Home Economics, Language Arts (If a foreign language is elected then at least two semesters of the language is strongly recommended), Mathematics, Music, Physical Science, and Social Science.

GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE DEGREE

Twenty four hours of General Education, as outlined below, are required of each person who receives an Associate in Science degree from Cameron College.

GENERAL EDUCATION	24 hours
1. <i>Mathematics and Sciences</i>	3-4 hours
Mathematics selected from any freshman level course 1013 or above.	
2. <i>Communications Skills</i>	6 hours
1113 English	3 hours
1213 English	3 hours
3. <i>Social Science</i>	6 hours
2013 Government	3 hours
2013 History OR 2023 History	3 hours
4. <i>Physical Activity</i> *	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.	
5. <i>General Education Electives to total 24 hours</i> (Approved by Advisor)	

* 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 full-time active service also fulfills this requirement when proper papers are presented to the Office of Admissions.

SPECIFIC REQUIREMENTS FOR THE BACHELORS DEGREE

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

DEPARTMENT OF BIOLOGICAL SCIENCE

The Department of Biological Science offers a program leading to a Bachelor of Science degree with a major in Biology. Students must concentrate in either Botany or Zoology.

I. GENERAL EDUCATION 50 hours
(Chemistry 1314 and Physics 1114 are required for students planning to teach.)*

II. MAJOR FIELD 36 hours

Required Courses:

1014 General Botany I	4 hours
1034 General Zoology	4 hours
2003 Genetics	3 hours
2001 Genetics Laboratory	1 hour
3064 General Ecology OR 4094 Limnology	4 hours

Electives 20 hours
Botany or Zoology 12 hours in concentration
8 hours in other area

III. MINOR FIELD 18 hours
(To be selected from Mathematics, Chemistry, or Physics)

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED
FOR GRADUATION

Those students who wish to qualify for a secondary teaching certificate in the State of Oklahoma must take the following sequence of courses.

* A course in Physical Science may be substituted for either Chemistry 1014 or Physics 1014.

**PROFESSIONAL EDUCATION
FOR TEACHER CERTIFICATION (minimum) 22 hours**

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
**4772 Teaching of Biology	2 hours
**4128 Directed Observation and Student Teaching in High School	8 hours

*** Must be taken in the professional semester*

DEPARTMENT OF BUSINESS

The Department of Business offers programs leading to a Bachelor of Science degree with a major in Business (with concentrations in Accounting, General Business, Management, Business Education). A major in Business may also follow an Associate in Data Processing.

I. GENERAL EDUCATION 50 hours

II. MAJOR FIELD 36 hours

Required courses 27 hours

1003 Beginning Typewriting 3 hours
(This requirement is waived for students who present one unit of high school credit in Typewriting or the equivalent.)

2013 Principles of Accounting I 3 hours

2023 Principles of Accounting II 3 hours

2013 Principles of Economics I 3 hours

2023 Principles of Economics II 3 hours

2113 Business Communications 3 hours

3213 Business Law 3 hours

3413 Principles of Marketing 3 hours

3513 Principles of Management 3 hours

3603 Principles of Finance 3 hours

*Electives in business and
economics (Jr.-Sr. level) 9 hours*

The requirements to teach Shorthand and Typewriting are 6 hours in each area. Three hours may be deducted in each area for courses completed in high school.

III. MINOR FIELD 18 hours

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

Those students who wish to qualify for a secondary teaching certificate in the State of Oklahoma must take the following sequence of courses.

PROFESSIONAL EDUCATION FOR TEACHER CERTIFICATION (minimum) 22 hours

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
*4772 Methods of Teaching Business Subjects	2 hours
*4128 Directed Observation and Student Teaching in High School	8 hours

* Must be taken in the professional semester

BUSINESS-DATA PROCESSING

For the student who plans a B.S. in Business following an Associate in Data Processing a total of 128 hours is required for the degree as follows:

During the freshman and sophomore years:

General Education	24 hours
Data Processing Major	40 hours

During the junior and senior years:

Additional General Education	26 hours
Business required courses	18 hours
Additional Upper Division Business	12 hours
Upper Division electives	6 hours

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	50 hours
II. SPECIALIZED EDUCATION — Major	27 hours
<i>Required Courses</i>	22 hours
3142 Methods and Materials of Elementary Language Arts	2 hours
3152 Methods and Materials of Elementary Reading	2 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
3132 Music for Elementary Teachers I	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
<i>Elective Courses</i>	(minimum) 5 hours
2212 Physical Education—First Aid	2 hours
2053 Home Economics— Child Development	3 hours
3113 Library Science— Book Selection	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
 3412 Speech Correction 2 hours
 4152 Diagnosis and Remediation of Reading Difficulties 2 hours
 Art, Drama, Music (Courses in these fields other than methods courses) 1-3 hours

III. CERTIFICATION REQUIREMENTS6-8 hours

- 1223 Fundamentals of Art 3 hours
 2112 Oklahoma History 2 hours
 (Waived if applicant has completed $\frac{1}{2}$ unit in high school or has a passing score on the Oklahoma State Board of Education Examination.)
 2213 Human Geography 3 hours

IV. AREA OF CONCENTRATION—Minor18 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

A maximum of nine hours of work taken to fulfill other requirements may be applied to the area of concentration. Methods courses in Elementary Education may not be applied to the area of Concentration.

V. PROFESSIONAL EDUCATION22 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

* Should be taken in the professional semester

VI. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

The Department of Health and Physical Education offers a program leading toward a Bachelor of Science degree with a major in Health and Physical Education

I. GENERAL EDUCATION50 hours

II. MAJOR FIELD33 hours

Required Courses25 hours

A. Health10 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 .. 5 hours

- 2322 Introduction to Health, Physical Education and Recreation 2 hours
- 4003 Organization and Administration of Health, Physical Education and Inter-scholastic Athletes 3 hours

C. *Physical Education Activity10 hours

- Swimming 1 hour
- Tumbling and Gymnastics 1 hour
- Additional elective activity courses 8 hours

D. Elective Health, Physical Education and Theory Courses 8 hours

- 2281 Instructor's Course in First Aid 1 hour
- 3051 Officiating Women's Sports .. 1 hour
- 3052 Sports Officiating 2 hours
- 3292 Care of Athletic Injuries 2 hours
- 3332 Physical Examination and Measurements 2 hours
- 3352 Physical Education in the Elementary School 2 hours

* No more than five hours may be in intercollegiate athletics and no more than two of those hours in the same sport.

* No more than one hour of intramural sports.

3362 Physical Education in the Junior and Senior High School	2 hours
3363 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
Theory of Coaching (No more than three courses)	6 hours

III. MINOR FIELD18 hours

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

Those students who wish to qualify for an elementary-secondary teaching certificate in the State of Oklahoma must take the following sequence of courses. This certificate is valid for grades one through twelve.

PROFESSIONAL EDUCATION FOR TEACHER

CERTIFICATION (Minimum) 22 hours

2003 Introduction to Teaching	3 hours
3323 Psychology of Adolescence	3 hours
**3352 Educational Psychology	2 hours
**4032 Educational Tests and Measurements	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
**4232 Audio-Visual Education	2 hours
**4772 Methods of Teaching Physical Education	2 hours

** Must be taken in the professional semester.

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

Participation in Intercollegiate Sports; Maximum credit eight hours toward total 128 hour requirement.

DEPARTMENT OF LANGUAGE ARTS

The department of Language Arts offers programs leading to a Bachelor of Arts degree with a major in:

- (a) English
- (b) Speech-Drama

ENGLISH

I. GENERAL EDUCATION50 hours

II. MAJOR FIELD30 hours

Required courses:

(1) Three Literature courses from the following: 9 hours

2543 Survey of English Literature I 3 hours

2653 Survey of English Literature II 3 hours

2773 Survey of American Literature I .. 3 hours

2883 Survey of American Literature II 3 hours

(2) 3113 Shakespeare 3 hours

3303 Advanced Composition 3 hours

3813 History of the English Language 3 hours

Electives12 hours

Additional hours selected from English courses numbered 3000 or above. Major course work for prospective teachers must include 6 hours of American literature.

III. RELATED SUBJECTS FOR TEACHER
CERTIFICATION 8 hours

Students who plan to teach must take 8 additional hours in any combination from the related fields of Library Science, Speech, Dramatics, and/or Journalism.

IV. MINOR18 hours

V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED
FOR GRADUATION

Those students who wish to qualify for a secondary teaching certificate in the State of Oklahoma must take the following sequence of courses.

PROFESSIONAL EDUCATION FOR
TEACHER CERTIFICATION

2003 Introduction to Teaching	(minimum) 22 hours
3323 Psychology of Adolescence	3 hours
*3352 Educational Psychology	3 hours
*4032 Educational Tests and Measurements	2 hours
*4232 Audio-Visual Education	2 hours
*4772 Teaching of English	2 hours
*4128 Directed Observation and Student Teaching in High School	8 hours

* Must be taken in the professional semester

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.

SPEECH AND DRAMA

I. GENERAL EDUCATION	50 hours
II. MAJOR FIELD	32 hours
<i>Required courses</i>	10 hours
1133 Voice and Diction OR 1143 Phonetics	3 hours
2212 Introduction to Theater	2 hours
2312 Discussion Methods	2 hours
2533 Oral Interpretation of Literature	3 hours
<i>Select either Group A or Group B</i>	
Group A	
SPEECH	
2143 Argumentation and Debate	3 hours
3113 Advanced Public Speaking OR	
3633 Persuasion	3 hours
3373 History of Speech	3 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 FIELD18 hours
- IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

Those students who wish to qualify for a secondary teaching certificate in the State of Oklahoma must take the following sequence of courses.

PROFESSIONAL EDUCATION FOR
TEACHER CERTIFICATION (minimum) 22 hours

2003	Introduction to Teaching	3 hours
3323	Psychology of Adolescence	3 hours
*4032	Educational Tests and Measurements	2 hours
*4232	Audio-Visual Education	2 hours
*3352	Educational Psychology	2 hours
*4772	Teaching Speech in the Secondary School	2 hours
*4128	Directed Observation and Student Teaching in High School	8 hours

* *Must be taken in the professional semester*

NOTE: Students who plan to teach English should have 6 hours of American Literature and 6 hours of English Literature.

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 50 hours
- II. MAJOR FIELD Minimum of 34 hours

Required Courses Minimum of 15 hours

*1165	College Algebra and Trigonometry	5 hours
**1173	College Algebra	3 hours
**1183	Trigonometry	3 hours
1195	Analysis I or Math 2003 and Math 2013	5-6 hours
2213	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

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

** *1173 and 1183 duplicate 1165*

Electives Minimum of 18 hours

(Students seeking an Oklahoma Standard Teaching Certificate in Mathematics must elect Mathematics 3333.)

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

4483 Introduction to Real Analysis 3 hours

4491-3 Independent Study in Mathematics 1-3 hours

III. MINOR FIELD 18 hours

IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION

Those students who wish to qualify for a secondary teaching certificate in the State of Oklahoma must take the following sequence of courses.

PROFESSIONAL EDUCATION FOR TEACHER CERTIFICATION (minimum) 22 hours

2003 Introduction to Teaching 3 hours

3323 Psychology of Adolescence 3 hours

*4032 Educational Tests and Measurements 2 hours

*3352 Educational Psychology 2 hours

*4232 Audio-Visual Education 2 hours

*4772 Teaching of Secondary Mathematics .. 2 hours

*4128 Directed Observation and Student

Teaching in High School 8 hours

* *Must be taken in the professional semester*

V. MATHEMATICS-DATA PROCESSING

For the student who plans a major in Mathematics following an Associate 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 1195 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 1195 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

The Department of Military Science offers a Bachelor of Science degree for military service personnel with a major in General Education upon completion of the following requirements:

- I. GENERAL EDUCATION 50 hours
- II. ACADEMIC AREA OF
SPECIALIZATION (minimum) 30 hours
- III. MILITARY SCIENCE 24 hours
- IV. RESIDENT ACADEMIC CREDIT EARNED AT
CAMERON COLLEGE 24 hours
- V. ELECTIVES TO COMPLETE 128 HOURS REQUIRED
FOR GRADUATION

This is a Bootstrap Program to facilitate the earning of degrees by members of the United States Armed Forces. If the student can accumulate a total of 101 acceptable college hours through the college-level General Educational Development examinations (or the Comprehensive College Tests), through USAFI course credit, through college correspondence courses, through service schools applicable toward his specialization, and through resident college credit from this or any

other accredited college, the remaining 27 hours required for a degree may be completed in a 6 months TDY period in a spring semester and summer term at Cameron. If the student can secure a TDY period of 9 or 12 months, then a correspondingly less amount of credit than the 101 hours mentioned above would be required for admission.

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 EDUCATION50 hours
- II. MAJOR-MINOR FIELD (with concentration in
Vocal, Piano or Instrumental)56 hours

Required Courses32 hours

2912 Elementary Harmony I	2 hours
2932 Elementary Harmony II	2 hours
2922 Elementary Ear Training I	2 hours
2942 Elementary Ear Training II	2 hours
1212 Music Literature I	2 hours
1222 Music Literature II	2 hours
3912 Advanced Harmony I	2 hours
3932 Advanced Harmony II	2 hours
3922 Advanced Ear Training I	2 hours
3942 Advanced Ear Training II	2 hours
3101 Principles of Conduction	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

Required Area of Concentration

Select Group A or Group B or Group C

GROUP A

Vocal Music

Applied Music (piano)	6 hours
Applied Music (voice)	16 hours
Vocal Pedagogy	2 hours
total	24 hours

GROUP B

Piano

Applied Music (piano)	17 hours
Applied Music (second instrument)	4 hours
Piano Pedagogy	3 hours
total	24 hours

GROUP C

Instrumental Music

Brass Class	2 hours
Woodwind Class	2 hours
Percussion Class	1 hour
Applied Music (piano)	4 hours
Orchestration	2 hours
Applied Music (primary instrument)	13 hours
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 either choir or band is required of all music majors every semester.

Participation in vocal diction lab is required for all voice majors during the first semester.

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

PROFESSIONAL EDUCATION FOR

TEACHER CERTIFICATION (minimum) 22 hours

Those students who wish to qualify for a secondary teaching certificate in the State of Oklahoma must take the following sequence of courses.

2003 Introduction to Teaching	3 hours
3323 Psychology of Adolescence	3 hours
*3352 Educational Psychology	2 hours
3712 Elementary Music Methods	2 hours
3722 Secondary Music Methods, Vocal OR 3742 Secondary Music Methods, Instrumental	2 hours
*4032 Educational Tests and Measurements OR *4232 Audio-Visual Education	2 hours
*4128 Directed Observation and Student Teaching in Elementary and Secondary School	8 hours

* Must be taken in the professional semester

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

CHEMISTRY

I. GENERAL EDUCATION 50 hours
(must include 1014-1024 or 2014-2024 physics sequence)

II. MAJOR FIELD 36 hours

Required courses:

General Chemistry 5-8 hours

1314-1414 General Chemistry 8 hours

OR

1515 Chemistry 5 hours

2112 Chemical Analysis 2 hours

2222 Qualitative Chemistry 2 hours

2233 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 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 students who wish to qualify for a secondary teaching certificate in the State of Oklahoma must take the following sequence of courses.

**PROFESSIONAL EDUCATION FOR
TEACHER CERTIFICATION** (minimum) 22 hours

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
*4772	Methods of Teaching Physical Science	2 hours
*4128	Directed Observation and Student Teaching in High School	8 hours

* *Must be taken in the professional semester*

NATURAL SCIENCE SPECIALIZATION

I. MAJOR-MINOR 54 hours

Required Courses 36-39 hours

Biology

1014 General Botany 4 hours

1034 General Zoology 4 hours

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

Chemistry

1314 General Chemistry 4 hours

1414 General Chemistry 4 hours

Organic Chemistry

(3314-3324 sequence or 2345) 5-8 hours

Physics

1114 General Physics 4 hours

1214 General Physics 4 hours

2013 Modern Physics 3 hours

Electives 18-21 hours

A minimum of 24 semester hours must be earned in one of the three above areas.

Additional courses shall be selected from the areas of Biology, Chemistry, Physics and Geology to total 54 semester hours.

**II. ELECTIVES TO COMPLETE 128 HOURS REQUIRED
FOR GRADUATION**

Those students who wish to qualify for a secondary teaching certificate in the State of Oklahoma must take the following sequence of courses.

**PROFESSIONAL EDUCATION FOR
TEACHER CERTIFICATION** (minimum) 22 hours

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
*4772 Methods of Teaching Physical Sciences	2 hours
* 4128 Directed Observation and Student Teaching in High School	8 hours

** Must be taken in the professional semester*



DEPARTMENT OF SOCIAL SCIENCE

The Social Science Department offers a program leading to a Bachelor of Arts degree with the major in History.

- I. GENERAL EDUCATION 50 hours
- II. MAJOR FIELD 37 hours
- Required courses* 10 hours
- Introductory European history (above and beyond the general education requirement) 3 hours
 1113 Early Western Civilization OR
 1123 Modern Western Civilization
- Introductory American history (above and beyond the general education requirement) 3 hours
 2013 United States History to 1865 OR
 2023 United States History since 1865
- State history 2 hours
 2112 Oklahoma History and Government
- Techniques of research and writing 2 hours
 4792 Senior Seminar in History
- Electives chosen from each of the following areas* 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 not elect to minor.
- III. MINOR FIELD 18 hours
 (The student is strongly advised to select Political Science, Economics, Sociology, English or a foreign language for the minor.)
- IV. ELECTIVES TO COMPLETE 128 HOURS REQUIRED FOR GRADUATION
- Those students who wish to qualify for a secondary teaching certificate in the State of Oklahoma must take the following sequence of courses.

PROFESSIONAL EDUCATION FOR TEACHER CERTIFICATION22 hours

2003 Introduction to Teaching	3 hours
3332 Psychology of Adolescence	3 hours
*3352 Educational Psychology	2 hours
*4032 Educational Tests and Measurements	2 hours
*4232 Audio-Visual Education	2 hours
*4772 Methods of Teaching History	2 hours
*4128 Directed Observation and Student Teaching in High School	8 hours

* Must be taken in the professional semester

NOTE: To teach most subjects in the Social Science area, a person must have at least 6 hours in the subject; however, Oklahoma History, Negro History, and Conservation of National Resources may be taught with only a single college course in the field.

SUBJECT MINORS

A minor at Cameron College consists of a minimum of 18 course hours in an approved subject area. The following constitute the approved areas in which students may earn subject minors:

Accounting	Government
Agriculture	Health and Physical Education
Art	History
Biology	Home Economics
Chemistry	Language Arts
Coaching of Athletics	Law Enforcement
Data Processing	Mathematics
Drafting & Design	Music
Technology	Nursing
Economics	Physics
Electronics	Sociology
English	Spanish
French	Speech
German	Military Science

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 College offers at least 8 hours in the subject area.

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

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

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

1003 Clothing OR 1033 Clothing OR 2033 Clothing OR	
2073 Textiles	6 hours
1013 Foods (laboratory course)	3 hours
1023 Family Relations OR 3013 Meal Planning OR	
2053 Child Development	3 hours
1043 Nutrition	3 hours
2003 Consumer Problems OR 3023 Household Equipment	
OR 2093 Housing	3 hours

Language Arts

A minor in Language Arts is recommended, with 9 to 12 hours
selected from one of the following areas and 6 to 9 hours selected from
one or more of the other fields listed, for a total of 18 hours.

Foreign Language

Journalism

Library Science

Speech-Drama (closed to Speech-Drama majors)

English (sophomore level or above, closed to English
majors)

Mathematics

*1165 College Algebra and Trigonometry	5 hours
**1173 College Algebra	3 hours
**1183 Trigonometry	3 hours
1195 Analysis I	5 hours
Electives (numbered 2000 or above) to total	18 hours

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

*** Mathematics 1173 and Mathematics 1183 duplicate Mathematics 1165*

Physics

Physics 1314 and 1414 OR 2014 and 2024	8 hours
Modern Physics 2033	3 hours
Electives to total	18 hours

ASSOCIATE DEGREE PROGRAMS

An Associate in Science degree is offered in Agriculture-Business, Data Processing, Drafting and Design, Electronics, Law Enforcement, and Nursing.

GENERAL DEGREE REQUIREMENTS

To secure an Associate Degree from Cameron College the candidate must complete the following general degree requirements.

(1) The minimum credit total required for an Associate of Science degree is 64 semester hours with at least twice as many grade points as total hours attempted whether passed or failed. In nursing, the minimum number of semester hours is 68. In cases involving work done at more than one college the above grade average must be attained at Cameron College as well as in total combined college work.

(2) At least three-fourths of work required for graduation must be done in residence (on the campus) at approved institutions.

(3) The last fifteen hours of work must be done in residence at Cameron College.

(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 file for the degree at the beginning of the semester or term preceding graduation.

SPECIFIC DEGREE REQUIREMENTS

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



DEPARTMENT OF AGRICULTURE

AGRICULTURE - BUSINESS

This curriculum leads to an Associate in Science Degree and is designed to train students for immediate gainful employment in sales and management in agricultural business and industry.

- I. GENERAL EDUCATION24 hours
- II. MAJOR FIELD40 hours

Required Courses30 hours

1013 Agricultural Business 3 hours

1123 Livestock Feeding 3 hours

1124 Introduction to Animal Science 4 hours

1214 Introduction to Plant Science 4 hours

1334 Introduction to Agricultural
Economics 4 hours

2013 Elements of Accounting I 3 hours

2122 Agricultural Engineering 2 hours

2124 Fundamentals of Soil Management 3 hours

2133 Dairy Cattle Management 3 hours

Electives10 hours

- III. ELECTIVES TO COMPLETE 64 HOURS REQUIRED FOR GRADUATION

DEPARTMENT OF NURSING

To insure high quality instruction, the class enrollment is limited each year. A new class is admitted in the Fall of each year. Admission to the Nursing Program is by permission of the Chairman and faculty of the Nursing Department. The Department of Nursing reserves the right to refuse enrollment in the Nursing Program to any student. 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	24 hours
II. MAJOR	49 hours

Required courses:

1015 Nursing—Fundamentals of Nursing I	5 hours
1025 Nursing—Fundamentals of Nursing II	5 hours
1035 Nursing—Maternal-Child Health	5 hours
1113 Psychology—Elements of Psychology	3 hours
1124 Physiology—Human Anatomy and Physiology	4 hours
2013 Sociology—Principles of Sociology	3 hours
2033 Bacteriology—General Bacteriology ..	3 hours
2048 Nursing—Physical and Mental Illness I	8 hours
2510 Nursing—Physical and Mental Illness II	10 hours
3343 Psychology—Psychology of Childhood	3 hours

An overall grade point average of 2.0 (C) shall be achieved in all courses attempted. 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 College 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 shall be required to purchase student nurse liability insurance and become members of Oklahoma State Student Nurse's Association.

The Nursing faculty reserves the right to drop from its rolls, any student who has been absent from lecture more than three times or absent from clinical laboratory more than twice. Students arriving to the assigned clinical or classroom areas late may be considered absent by the Faculty of the Nursing Department. A student who is dropped for academic reasons shall not be readmitted to the program except in rare cases and then by special permission of the Nursing Department Chairman.

DEPARTMENT OF TECHNICAL EDUCATION

The Department of Technical Education offers programs leading to an Associate in Science Degree in the areas of Data Processing, Drafting and Design, Electronics and Law Enforcement.

DATA PROCESSING

This program leads to an Associate in Science Degree. The Technical Data Processing Curriculum is designed to prepare the student for immediate employment at the close of his sophomore year.

Due to complexity and concentration of subject matter, much hard work and dedication is expected of the successful student. Therefore, he must be a mature person and relatively certain of his goal being Computer Programming.

Although technical programs are primarily designed to prepare the student for the world of work in as short a time as possible, the student may apply credits earned toward a Baccalaureate Degree.

I. GENERAL EDUCATION 24 hours

II. MAJOR 40 hours

Required Courses:

1013	Introduction to Data Processing	3	hours
1024	Introduction to Programming and Punch Card Equipment	4	hours
1064	Data Processing Math	4	hours
2043	Computer Programming II	3	hours
2054	Programming III (COBOL)	4	hours
2063	Programming IV (FORTRAN)	3	hours
2082	Advanced Programming Problems	2	hours
2163	Programming VI	3	hours
2173	Programming V (3rd Generation Assembly Programming)	3	hours
3074	Programming Systems Development and Design	3	hours
3133	Business—Cost Accounting	3	hours
3613	Business—Business Statistics	3	hours

III. ELECTIVES TO COMPLETE 64 HOURS REQUIRED FOR GRADUATION

DRAFTING AND DESIGN

The Drafting & Design curricula is designed to prepare the student for immediate employment at the close of his sophomore year. At the present time there is great demand in commerce and industry for people trained at the technician level.

Successful completion of the Drafting Technology Curriculum leads to the Associate of Science Degree. For those students who desire further education, the credits may be applied toward a Baccalaureate Degree.

I. GENERAL EDUCATION	24 hours
II. MAJOR	40 hours

Required Courses:

1013 Engineering Graphics I	3 hours
1023 Engineering Graphics II	3 hours
1042 Circuit Drawing	2 hours
1072 Tool Design	2 hours
2013 Arch Design I	3 hours
2024 Arch Design II	4 hours
2034 Machine Design	4 hours
2064 Structural Design	4 hours
2073 Industrial Illustration	3 hours
2123 Surveying	3 hours
*1014 Applied Mathematics and Algebra	4 hours
*1114 Applied Logarithm and Trigonometry	4 hours

* Not required if equivalent courses were taken.

III. ELECTIVES TO COMPLETE 64 HOURS REQUIRED FOR GRADUATION

ELECTRONICS TECHNOLOGY

The Electronics Technology curriculum is designed to prepare the student for immediate employment in industry at the close of his sophomore year. Successful completion of the required curriculum leads to the Associate of Science Degree. There are a great variety of opportunities for graduates in this field. For students who desire further education following the Associate Degree in Electronics, the credits may be applied toward a Baccalaureate Degree.

I. GENERAL EDUCATION	24 hours
II. MAJOR	40 hours

Required Courses:

1014 Electricity	4 hours
1024 Network Analysis	4 hours
1054 Introduction to Electronics	4 hours
2014 Electronic Amplifiers	4 hours
2064 Pulse and Switching Circuits	4 hours
2124 Principles of Computers	4 hours
3034 Automatic Control Systems	4 hours
3044 Communications Circuits	4 hours
*1014 Applied Math and Algebra	4 hours
*1114 Applied Logs and Trig.	4 hours

* Not required if equivalent courses were taken.

III. ELECTIVES TO COMPLETE 64 HOURS REQUIRED FOR GRADUATION

LAW ENFORCEMENT TECHNOLOGY

This curriculum leads to an Associate in Science degree. It is designed to meet the needs of those who plan to work with public and private agencies concerned with maintaining public safety, preventing crime or apprehending criminals, those already employed by law enforcement agencies wishing to obtain further education for professional advancement, and those desiring to increase their knowledge for advance study in criminology or social welfare.

I. GENERAL EDUCATION24 hours

II. MAJOR40 hours

Required Courses:

1013 Introduction to Law Enforcement	3 hours
1023 Police Patrol and Services	3 hours
1113 General Psychology	3 hours
1113 Elements of Speech	3 hours
1033 Criminal Law and Administration of Justice	3 hours
1043 Criminal Evidence	3 hours
2013 Principles of Sociology	3 hours
2053 Police Traffic Functions	3 hours
2063 Criminal Investigation	3 hours
2073 Juvenile Procedures	3 hours
2083 Organization of Law Enforcement	3 hours
<i>Elective</i>	7 hours

III. ELECTIVES TO COMPLETE 64 HOURS REQUIRED FOR GRADUATION

PRE-PROFESSIONAL PROGRAM

Cameron College 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.

TWO-YEAR PROGRAMS

(non-degree)

Cameron College offers course work in non-degree programs for a number of specific vocations or further study in the fields of Agriculture, Home Economics, General Business, and Secretarial Science.

AGRICULTURE

The non-degree programs related to agriculture include: Agricultural Education, Agricultural Engineering, Agricultural Journalism, General Agriculture, Animal Science, Mechanized Agriculture, Agronomy, Entomology, Forestry, and Horticulture.

Most institutions offering the baccalaureate degree in the above areas require the following courses:

1113 English and 1213 English	6 hours
1314 Chemistry and 1414 Chemistry	8 hours
2013 Political Science	3 hours
2013 History or 2023 History	3 hours
1113 Speech	4 hours
1334 Agricultural Economics	4 hours
1124 Animal Science	4 hours
1214 Agronomy	4 hours

Additional courses from the areas of Agriculture, Humanities, Biological Science, Mathematics, and Business are commonly required for the above majors.

Since program requirements vary considerably, the student should consult an advisor from the Department of Agriculture at Cameron Agricultural College and the catalog of the institution to which the student plans to transfer for guidance in course selection.

Vocational Home Economics Curriculum

FRESHMAN

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
Biology 1005—General	5	Chemistry 1314	4
English 1113—Composition	3	English 1213	3
Speech 1113—Fundamentals	3	Home Ec. 1013—Foods	
Home Ec. 1003 or 1033— Clothing Selection or Beginning Clothing Const.	3	Principles	3
Phys. Ed.	1	Home Ec. 1023—Family Relations	3
Art 1223—Fundamentals	3	Home Ec. 1043—Nutrition	3
		Phys. Ed.	1

SOPHOMORE

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
Chemistry 2204—Organic	4	Humanities 2114	4
Home Ec. 2003—Consumer Problems	3	Home Ec. 3023—Household Equipment	3
Home Ec. 2053—Child Development	3	Home Ec. 2073—Textiles	3
Home Ec. 2033—Adv. Clothing	3	Home Ec. 2093—Housing for Contemporary Living	3
Hist. 2013 or 2023—American	3	Psychology 1113—Elements	3
Physical Education	1	Physical Education	1

JUNIOR

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
Home Ec. 2013—Meal Planning	3		
Sociology 2013—Principles	3		
Ec. 2013—Principles of Economics	3	Transfer to a college giving a vocational certificate	
Government 2013—Federal	3		
Engl. 2303—Advanced Comp.	3		
Music 2012 or Art 2112 or Literature	2		

Two-Year General Business

FRESHMAN

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
English 1113	3	English 1213	3
Biology 1005 or Elective	5	Humanities or Biology 1005	2-5
Math 1013-1043	3	Math 1043-1173	3
Speech 1113—Fundamentals	3	*Typewriting 1003-2013	3
Govt. 2013 or Hist. 2023	3	Hist. 2023 or Govt. 2013	3
Phys. Ed.	1	Phys. Ed.	1

SOPHOMORE

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
Bus. Comm. 2113	3	Bus. 3023—Report Writing	3
Acct. 2013—Elements	3	Acctg. 2023—Elements	3
Bus. Mach. 2012	2	Business Law	3
Economics 2013—Principles	3	Economics 2023—Principles	3
Elective	3	Phys. Ed.	1
Phys. Ed.	1	Elective	3

* *Students who have high school credit in typing may be excused from type-writing, providing opportunity for additional business subjects. Flexibility of electives permits the student to select preferred courses that have both general education and departmental value.*

Office Administration Two-Year Secretarial Administration

FRESHMAN

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
English 1113	3	English 1213	3
Alg. 1043 or Math 1013—		*Shorthand 1023—Intermediate	3
or Bus. Math	3	*Typewriting 2013-3003	5
*Shorthand 1013-1023	3	Biology 1005—General	3
*Typewriting 1003-2013	3	Speech 1113—Fundamentals	1
or 3003	3	Phys. Ed.	
Govt. 2013 or Hist. 2023	3		
Phys. Ed.	1		

SOPHOMORE

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
Bus. Comm. 2113	3	Records Management 3002	2
Dictation 2114	4	Bus. Mach. 2012	2
Transcription 2112	2	Office Procedures 2023	3
Hist. 2023 or Govt. 2013	3	Advanced Dictation 3113	3
Economics 2013	3	Business Electives	3
Humanities	2	Accounting 2013—Elements	3
Phys. Ed.	1	Humanities	2
		Phys. Ed.	1

* *The shorthand or typewriting course elected by the student will be determined by the high school credit transferred to Cameron.*



COURSE DESCRIPTIONS

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

AGRICULTURE

- 1003 **AGRICULTURAL MATHEMATICS, 3 hours credit**
Basic mathematics for students of agriculture. Practical problems in agriculture. Lecture 3 hours.
- 1013 **AGRICULTURE-BUSINESS MANAGEMENT, 3 hours credit**
An introduction to agricultural-business and industry. A discussion of the opportunities in various fields and the relationship of credit, personnel problems, salesmanship and the laws pertaining to Agri.-Business with management. Lecture 3 hours.
- 1031 **CROP AND WEED IDENTIFICATION, 1 hour credit**
Growth habits and identification of the crops and weeds of the area.
- 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.
- 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.
- 1133 **BREEDS OF LIVESTOCK, 3 hours credit**
Origin, history, coming development, and characteristics of breeds of horses, cattle, sheep, and hogs. Lecture 2 hours, laboratory 2 hours. Prerequisite: Agriculture 1124.
- 1214 **INTRODUCTION TO PLANT SCIENCES, 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.
- 2011 **LIVESTOCK EVALUATION, 1 hour credit**
Instruction in selection, evaluating, fitting and showing of livestock. Laboratory 2 hours.
- 2021 **LIVESTOCK EVALUATION, 1 hour credit**
This course is a continuation of Agric. 2011. Prerequisite: Agriculture 2011.

- 2112 **AGRICULTURAL TECHNOLOGY LABORATORY, 2 hours credit**
A practical laboratory course in the composition, use, handling and application of agricultural chemicals including: soil analyses and fertilizers; certain livestock feeds and mineral supplements; insecticides; crop and seed grading and testing, and herbicides. Lecture 1 hour, laboratory 2 hours. Prerequisite: Chemistry 1314.
- 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 1414 or equivalent.
- 2133 **DAIRY CATTLE MANAGEMENT, 3 hours credit**
An introduction to the principles and practices of dairy cattle feeding and management. Lecture 2 hours, laboratory 2 hours. Prerequisite: Agriculture 1124.
- 2202 **SOIL CONSERVATION ENGINEERING, 2 hours credit**
Classroom and field exercises in terracing, contouring, farm surveying, farm and pond layout, and soil and moisture conservation. Lecture 1 hour, laboratory 3 hours. Prerequisite: 3 hours of Mathematics.
- 2253 **PRINCIPLES OF AGRICULTURAL MARKETING, 3 hours credit**
A study of the economic principles and problems in marketing farm products, marketing agencies, commodity pricing. Lecture 3 hours. Prerequisite: Agriculture 1334.



ART

- 1013 **BASIC DRAWING I, 3 hours credit**
A beginning drawing course with emphasis upon theory, creative interpretation, and practice in the elements of drawing. Course is open to all students. Laboratory, 6 hours per week.
- 1023 **BASIC DRAWING II, 3 hours credit**
The second semester course of beginning drawing emphasizing the creative expression of interpretive drawing and the technical aspects of perspective and composition. Laboratory, 6 hours per week.
- 1113 **BASIC DESIGN I, 3 hours credit**
An introduction to the theory, methods and practices of design with an emphasis upon methods of inquiry, techniques, and procedures used in design problem solving. Laboratory, 6 hours per week.
- 1123 **BASIC DESIGN II, 3 hours credit**
A continuation of 2113. Laboratory, 6 hours per week. Prerequisite: Art 1113.
- 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 per week.
- 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.
- 2043 **FIGURE DRAWING II, 3 hours credit**
Advanced problems in drawing and composition emphasizing creative graphic expression. Laboratory, 6 hours per week. Prerequisite: Art 2033.
- 2112 **ART APPRECIATION, 2 hours credit**
An introductory course of the many aspects of visual art: cultural backgrounds, functions, techniques, materials, and aesthetics. A general humanities course open to all students. Lecture, 2 hours.
- 2223 **PAINTING I, 3 hours credit**
A beginning painting course emphasizing composition, form and color through the acrylic media. Laboratory, 6 hours per week. Prerequisite: Art 1023 or permission.
- 2313 **HISTORY OF ART I, 3 hours credit**
A survey of the painting, sculpture, architecture, and minor arts from prehistoric times through the Gothic period. (Illustrated with visual aids.) Required of all art majors. Lecture, 3 hours.
- 2323 **HISTORY OF ART II, 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.) Required of all art majors. Lecture, 3 hours.
- 2413 **METAL SCULPTURE I, 3 hours credit**
Exploration and execution of three dimensional sculptural problems in cast and welded metals. Emphasis of this course will be placed upon technique. Laboratory, 6 hours per week. Prerequisite: Art 1123.

- 3233 **PAINTING II, 3 hours credit**
A studio course emphasizing the development of creative concepts and ideas through painting. Laboratory 6 hours per week. Prerequisite: Art 2223.
- 3423 **METAL SCULPTURE II, 3 hours credit**
A studio course emphasizing the development of creative concepts and ideas through sculpture. Laboratory 6 hours per week. Prerequisite: Art 2413.
- 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, 3 hours credit**
Advanced painting in media and subject matter decided in conference between student and instructor. Prerequisite: Art 2233.
- 4253 **ADVANCED PAINTING, 3 hours credit**
Continuation of Art 4243. Prerequisite: Art 4243.



BIOLOGICAL SCIENCES

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 elucidate 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: Biology 1034 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: Biology 1014.
- 3004 **PHYCOLOGY, 4 hours credit**
Morphology, classification and ecology of the fresh water algae. Lecture 3 hours, laboratory 3 hours and field trips. Prerequisite: Biology 1024.
- 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: Biology 1014.

- 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: 8 hours of Biological Science.
- 3074 **NATURAL HISTORY OF THE VERTEBRATES, 4 hours credit**
Ecology, Taxonomy, and life histories of vertebrates. Lecture 3 hours. Lab 3 hours. Field trips arranged. Prerequisite: 4 hours of Zoology.
- 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: 4 hours of zoology or permission.
- 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. Homostatic 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 Biology.
- 4054 **VASCULAR AQUATIC PLANTS, 4 hours credit**
Taxonomy and ecology of the fresh water vascular plants. Lecture 3 hours, laboratory 3 hours. Prerequisite: Biology 1014. Field trips required.
- 4064 **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.
- 4084 **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.

- 4094 **LIMNOLOGY, 4 hours credit**
An introduction to the biological, chemical, and physical features of fresh-water lakes, ponds, and streams, with emphasis on methods. Lecture 3 hours, laboratory 3 hours, field trips. Prerequisites: 12 hours of Biology, 10 hours of Chemistry and permission.
- 4121-4 **SPECIAL STUDIES, 1 to 4 hours credit**
Term paper and oral examination required. Laboratory may be required. Prerequisite: 8 hours of Biology.
- 4772 **TEACHING OF BIOLOGY, 2 hours credit**
Methods and materials in secondary education. Lecture 2 hours. Prerequisite: Approval of instructor and advisor.

Botany

- 1114 **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.
- 1024 **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: Biology 1014.

Zoology

- 1114 (1314) **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.
- 1124 **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.
- 3014 **INVERTEBRATE ZOOLOGY, 4 hours credit**
Morphology, taxonomy, natural history, and evolutionary relationships of the invertebrates. Lecture 3 hours, laboratory 3 hours. Prerequisite: Biology 1034.

BUSINESS

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 processes 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 accountnig.

Business Law

- 3213 **BUSINESS LAW, 3 hours credit**
Introductory course dealing with the legal principles of contracts, negotiable instruments, agency and employment. Lecture 3 hours.

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.
- 2013 **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.
- 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.

General Business

- 1003 **INTRODUCTION TO BUSINESS, 3 hours credit**
A survey of business activities covering principles, problems, and practices related to the economy and to the administration of business enterprises. For freshmen only. Lecture 3 hours.
- 1013 **BUSINESS MATHEMATICS, 3 hours credit**
A practical application of the principles of mathematics to various phases of business (Recommended for Office Administration and Business Education Majors.) Lecture 3 hours.
- 2012 **BUSINESS MACHINES, 2 hours credit**
Practice and theory relating to the operating of the more commonly used office machines. Includes the full keyboard, ten keyboard, printing and rotary calculators and their application to business needs; demonstrations on other varieties of equipment. Lecture 1 hour, laboratory 2 hours.
- 2023 **OFFICE PROCEDURES, 3 hours credit**
Information on basic office services. Subjects include office communication, duplication, basic filing, mail and shipping procedures, public relations duties, office equipment and supplies. Lecture 3 hours. Prerequisite: Beginning Typewriting.
- 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 1123 or the equivalent and Typ. 1003 or equivalent.
- 2812 **FUNDAMENTALS OF REAL ESTATE, 2 hours credit**
Basic principles with elementary discussions of title and transfer, value, liens, financing, taxes. Professional ethics of the Real Estate Business. Thirty clock hours of instruction. Prerequisite: Economics 2013 or permission.
- 3613 **BUSINESS STATISTICS, 3 hours credit**
Basic principles of statistical methods as they apply to business situations. Lecture 3 hours. Prerequisites: Algebra 143 or the equivalent.
- 3002 **RECORDS MANAGEMENT, 2 hours credit**
Activities dealing with the creation, protection, storage, and disposition of business records. Lecture 2 hours.
- 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.
- 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 Procedures 2023.
- 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.

- 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 permission.
- 3513 **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.
- 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 3513.
- 3603 **PRINCIPLES OF FINANCE, 3 hours credit**
A study of the relationship of security investment to capital formation; investment policy; the relationship of investment to business cycles, changing rates of interest, and price levels. Lecture, 3 hours. Prerequisite: Economics 2023, and Accounting 2023.
- 3633 **CORPORATION FINANCE, 3 hours credit**
Emphasis on analysis, forms of business organization, methods of raising capital, capital structures, internal financial management. Lecture, 3 hours. Prerequisite: Principles of Finance 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.
- 4533 **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 3513.
- 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.

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 advance 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 by 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 take transcription concurrently with Dictation 2114. Class 2 hours. Prerequisite: Shorthand 1023.
- 2114 **DICTATION, 4 hours credit**
Skill building in dictation with emphasis on increased speed. Students take Dictation 2114 concurrently with Transcription 2112. Class 4 hours. Prerequisites: Intermediate Typewriting 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 by the Chairman of the Department. Class 5 hours.
- 2013 **INTERMEDIATE TYPEWRITING, 3 hours credit**
Development of skill in the practical application of typewriting. Assignments consist of letter formats, tabulated materials, manuscripts, rough drafts, business forms, and additional related business materials. 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: Intermediate Typewriting 2013 or two years of high school typewriting.



EDUCATION AND PSYCHOLOGY

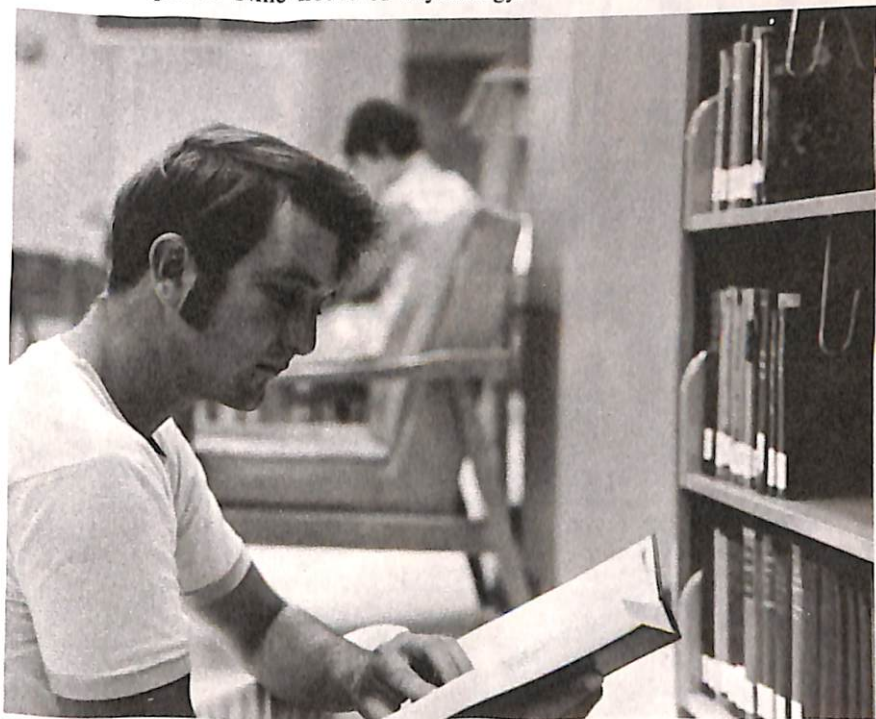
Education

- 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.
- 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.
- 3142 **METHODS AND MATERIALS IN ELEMENTARY LANGUAGE ARTS, 2 hours credit**
Methods and techniques of teaching developmental skills in listening, speaking, writing, and spelling in the elementary grades. Lecture 2 hours. Prerequisites: Education 2003, Psychology 3343.
- 3152 **METHODS AND MATERIALS IN ELEMENTARY READING, 2 hours credit**
Objectives, methods, and materials of teaching developmental reading readiness through sixth grade. Lecture 2 hours. Prerequisites: Education 2003, Psychology 3343.
- 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 Music, and Health and Physical Education majors)
- 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 Music, and Health and Physical Education majors)
- 4128 DIRECTED OBSERVATION AND STUDENT TEACHING IN THE SECONDARY SCHOOL, *8 hours credit*
 (For Secondary Education majors)
- 4152 DIAGNOSIS AND REMEDIATION OF READING DIFFICULTIES, *2 hours credit*
 A study of methods of diagnosis of reading difficulties, and techniques of remediation of such difficulties. Prerequisite: Education 3152.
- 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.
- 4252 PRINCIPLES OF SECONDARY EDUCATION, *2 hours credit*
 Organization and function of secondary education; principal 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 extra-class 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.





HEALTH AND PHYSICAL EDUCATION

Health

- 1052 PERSONAL AND COMMUNITY HEALTH, *2 hours credit*
Problems and practices concerning personal and community health.
Lecture 2 hours.
- 2212 (2202) 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 courses.) 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 of management and 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.

Physical Education Activity

- 1011 INDIVIDUAL SPORTS, *1 hour credit*
Individual and group activities for general physical improvement. Laboratory 2 hours.
- 1021 TEAM SPORTS, *1 hour credit*
Fundamentals of basketball, softball, and volleyball. Laboratory 2 hours.
- 1031 BODY MECHANICS, *1 hour credit*
Women's Physical Education. Fundamental principles of good body control and movement.
- 1041 TUMBLING AND GYMNASTICS, *1 hour credit*
Men and/or Women physical education participation in tumbling and gymnastics; development of grace and strength to perform these skills. Laboratory 2 hours.
- 1061 PHYSICAL EDUCATION ACTIVITY, *1 hour credit*
Individual and group activities for general physical education. Laboratory 2 hours.
- 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.
- 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. Prerequisite: 4 hours Physical Education Activity.

- 2041 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. Prerequisite: 4 hours Physical Education Activity.
- 2071 PARTICIPATION IN INTERCOLLEGIATE SPORTS, *1 hour credit*
Five days a week in season. (Maximum credit eight hours toward total 128 hours requirement.)
- 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.
- 2151 FOLK AND SQUARE DANCING, *1 hour credit*
Basic steps and patterns used in the two types of dance. Laboratory 2 hours.
- 2161 INTRAMURAL SPORTS, *1 hour credit*
Participation in the intramural activities of the college with approval of the Intramural Director. (Maximum credit two hours toward general education requirements, four hours toward total 128 hours requirements.)
- 2181 RECREATIONAL ACTIVITIES, *1 hour credit*
Participation in outdoor and indoor recreational activities. Laboratory 2 hours.
- 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.



HOME ECONOMICS

- 1003 **CLOTHING SELECTION, 3 hours credit**
A study of the selection and care of textiles and clothing with emphasis on their aesthetic, maintenance and sociological aspects. Lecture 3 hours.
- 1013 **FOOD PRINCIPLES, 3 hours credit**
A course of practical experience in the preparation and preservation of foods to retain maximum nutritive value, to increase palatability and to assure attractive appearance. Lecture 1 hour, laboratory 4 hours.
- 1023 **FAMILY RELATIONS, 3 hours credit**
A course including the study of human development, behavior and relationships in our society with emphasis on the social and emotional needs of the students. Lecture 3 hours.
- 1033 **CLOTHING SELECTION AND CONSTRUCTION, 3 hours credit**
A course in selection and construction of clothing suited to individual needs, abilities and interests. Problems involve fabric selection, basic fitting, and sewing techniques. Recommended for non-majors, also. Laboratory 6 hours.
- 1043 **NUTRITION, 3 hours credit**
A study of food nutrients, their digestion, absorption and metabolism as it relates to food and health problems in the present socioeconomic and cultural environment. Lecture 3 hours.
- 2003 **CONSUMER PROBLEMS, 3 hours credit**
A study of basic consumer problems encountered by the individual and family today, the place of the consumer in our society and the management of money, time and energy as it relates to home, family and community life. Recommended for non-majors, also. Lecture 3 hours.
- 2033 **INTERMEDIATE CLOTHING CONSTRUCTION, 3 hours credit**
A course in the use of advanced techniques of fitting, altering, and constructing clothing. An introduction to flat pattern design and tailoring techniques. Prerequisite: Home Economics 1003 or permission.
- 2053 **CHILD DEVELOPMENT, 3 hours credit**
A study of the child from conception, through adolescence and his development within the family setting with emphasis on principles of growth and dynamics of behavior. Lecture 3 hours.
- 2073 **TEXTILES, 3 hours credit**
A study of the properties, construction, finishes, use and care of textile fibers. Lecture 3 hours.
- 2093 **HOUSING FOR CONTEMPORARY LIVING, 3 hours credit**
A course involving the planning, furnishing and decorating of the home from the standpoint of family needs. A brief study is made of period furniture and architecture. Lecture 1 hour, laboratory 4 hours. Prerequisite: Art 1223.

2013

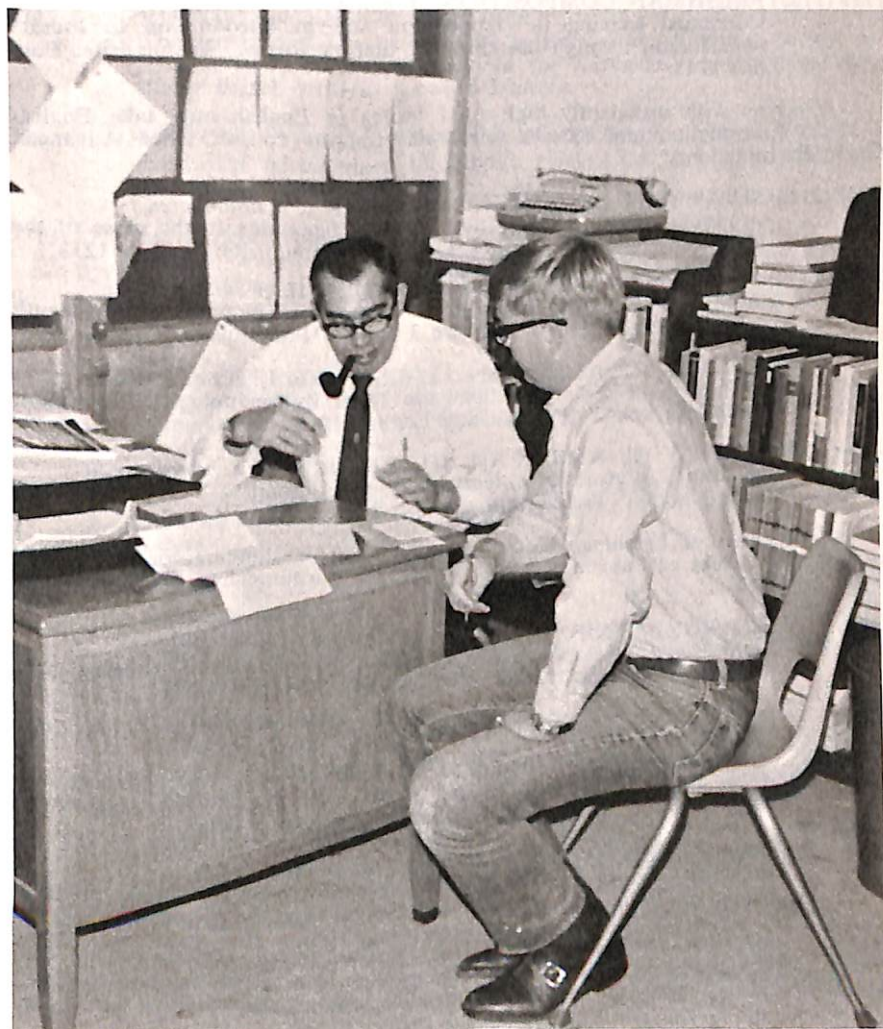
MEAL MANAGEMENT, 3 hours credit

A course designed to provide experience in planning, marketing, preparing and serving various types of meals. Emphasis is placed on the planning of nutritionally adequate meals for the family. It includes table service, table etiquette, table setting and decoration. Lecture 1 hour, laboratory 4 hours. Prerequisite: Food 1013 or permission.

3023

HOUSEHOLD EQUIPMENT, 3 hours credit

A study of the fundamental principles governing the selection, operation and care of equipment used in the home, basic kitchen planning and home lighting. Lecture 2 hours, laboratory 2 hours. Sophomore standing.



LANGUAGE ARTS

English

- 1113 FRESHMAN COMPOSITION, *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. Students having ACT scores of 13 or below must take two additional hours of Laboratory per week for no credit.
- 1213 (1123) FRESHMAN COMPOSITION, *3 hours credit*
Continued training in composition and in introduction to literary appreciation through the study of literary forms. Prerequisite: English 1213.
- A person with sufficiently high ACT scores in English may take English 1113 by Examination and receive full credit for the course. (See Advanced Credit Examination.)
- 2543 (2113) SURVEY OF ENGLISH LITERATURE I, *3 hours credit*
A history of English literature from its beginning to the close of the eighteenth century. Lecture 3 hours. Prerequisite: English 1213.
- 2653 (2123) SURVEY OF ENGLISH LITERATURE II, *3 hours credit*
A history of English literature from the beginning of the nineteenth century to the present. Lecture 3 hours. Prerequisite: English 1213.
- 2773 (2483) 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 (2493) 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 Freshman Composition and junior standing, or permission of the Department of Language Arts, required for enrollment in classes number 3000 or above.
- 3113 INTRODUCTION TO 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.
- 3913 MODERN CONTINENTAL LITERATURE, *3 hours credit*
Survey of European literature of the nineteenth and twentieth centuries in translation; consideration of literary movements, with some emphasis given to relationship with British and American writings. Lecture 3 hours.
- 4113 THE ENGLISH NOVEL, *3 hours credit*
The beginnings of the English novel; a critical analysis of representative novels from the origins through Jane Austen and Sir Walter Scott. Lecture 3 hours.
- 4123 THE MODERN ENGLISH NOVEL, *3 hours credit*
A critical analysis of major English novels since 1832. 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.
- 4713 CLASSICAL LITERATURE IN TRANSLATION, 3 hours credit
Study of the origin and development of classical mythology, Greek and Latin drama, epic and lyrical poetry, and classical satire, with special attention to influence upon British and American literature. Lecture 3 hours.
- 4772 TEACHING OF ENGLISH, 2 hours credit
An introduction to the methods and materials in teaching high school English. Lecture 2 hours. Prerequisite: Department approval.

Foreign Language

French

- 1115 BEGINNING FRENCH I, 5 hours credit
An elementary course in understanding, speaking, reading and writing French. Lecture 5 hours.
- 1225 (1125) BEGINNING FRENCH II, 5 hours credit
Continuation of French 1115. Lecture 5 hours. Prerequisite: French 1115 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 1225 or equivalent.
- 2123 INTERMEDIATE FRENCH II, 3 hours credit
Continuation of French 2113. Lecture 3 hours. Prerequisite: French 2113 or equivalent.
- 2132 FRENCH COMPOSITION, 2 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 1125 or equivalent; companion course with French 2113.
- 2142 FRENCH COMPOSITION AND CONVERSATION, 2 hours credit
A continuation of French 2132 with additional emphasis on improving the student's control of the spoken language. Prerequisite: French 2132; companion course with French 2123.
- 4960-3 (3991-3) 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

- 1115 BEGINNING GERMAN I, *5 hours credit*
An elementary course in understanding, speaking, reading and writing German. Lecture 5 hours.
- 1225 (1125) BEGINNING GERMAN II, *5 hours credit*
Continuation of German 1115. Lecture 5 hours. Prerequisite: German 1115 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.
- 2132 GERMAN GRAMMAR, *2 hours credit*
An intensive study of the grammatical structure of German to increase the student's speaking and writing facility. Prerequisite: German 1225 or equivalent; companion course with German 2123.
- 2142 GERMAN COMPOSITION, *2 hours credit*
The application of skills gained in German 2132 and additional intensified vocabulary study to increase the student's ability to write in good idiomatic German. Prerequisite: German 2132; companion course with German 2123.
- 4960-3 (3991-3) 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

- 1115 BEGINNING SPANISH I, *5 hours credit*
An elementary course in understanding, speaking, reading and writing Spanish. Lecture 5 hours.
- 1225 (1125) BEGINNING SPANISH II, *5 hours credit*
Continuation of Spanish 1115. Lecture 5 hours. Prerequisite: Spanish 1115 or equivalent.
- 2113 INTERMEDIATE SPANISH I, *3 hours credit*
A systemic review of Spanish grammar, and the cultivation of facility in reading modern literary texts. Lecture 3 hours. Prerequisite: Spanish 1225 or equivalent.
- 2123 INTERMEDIATE SPANISH II, *3 hours credit*
Continuation of Spanish 2113. Lecture 3 hours. Prerequisite: Spanish 2113 or equivalent.
- 2132 SPANISH COMPOSITION, *2 hours credit*
A systematic review of Spanish grammar, conversation and written, with emphasis on improving the student's control of written Spanish. Prerequisite: Spanish 1225 or equivalent; companion course with Spanish 2113.

- 2142 SPANISH COMPOSITION, 2 hours credit
The application of skills gained in Spanish 2132 and additional intensified vocabulary study to increase the student's ability to write in good idiomatic Spanish. Prerequisite: Spanish 2132; companion course with Spanish 2123.
- 3203 SURVEY OF SPANISH LITERATURE I, 3 hours credit
A study of representative works from the beginning to the Neo-Classic Period. Lecture 3 hours.
- 3213 SURVEY OF SPANISH LITERATURE II, 3 hours credit
A study of representative works from 1700 to the present. Lecture 3 hours.
- 4960-3 (3991-3) 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.

Humanities

- 2114 (2214) HUMANITIES IN EARLY WESTERN CULTURE, 4 hours credit
A study of the significant ideas of man as manifested in the arts, philosophy, and religion from the Ancient Near Orient through the Middle Ages. Lecture 4 hours. Prerequisite: English 1213.
- 2224 HUMANITIES IN WESTERN CULTURE: RENAISSANCE TO THE PRESENT, 4 hours credit
Significant ideas of man as manifested in the arts, philosophy, and religion from the Renaissance through modern times. Lecture 4 hours. Prerequisite: English 1213.

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.
- 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

- 3113 **BOOK SELECTION AND ACQUISITION, 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.
- 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.
- 4223 **REFERENCE MATERIALS, 3 hours credit**
Selection, evaluation, and use of basic reference materials; interpretation of reference questions; library reference work. 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.



Speech and Drama

- 1101 THEATRE LABORATORY, *1 hour credit*
Preparation for and participation in dramatic activities; may be repeated to a maximum of four hours.
- 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.
- 1143 PHONETICS, *3 hours credit*
A study of the concepts of pronunciation, the vowels, diphthongs, and the consonants of American English. Practice in broad transcription and dialect changes. Lecture 3 hours.
- 2113 STAGECRAFT, *3 hours credit*
Study of the theory and practical experience in the fundamentals of painting and constructing scenery. Lecture 2 hours. Laboratory 2 hours.
- 2143 ARGUMENTATION AND DEBATE, *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. Prerequisite: Speech 1113 or permission.
- 2212 INTRODUCTION TO THEATRE, *2 hours credit*
An introduction to the various areas (theatre plant, acting, directing, sets, costumes, lighting, producing) that comprise the operation and organization of theatre. 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. Lecture 3 hours, laboratory 2 hours. Prerequisite: Enrollment in Speech 2212 and sophomore standing or permission of instructor.
- 2312 DISCUSSION METHODS, *2 hours credit*
Deals largely with the processes of decision-making in small groups and conferences; research and investigation, analysis of social problems, use of evidence and argument, and social interaction among participants. Practice in actual discussions, both in the role of participant and of leader. Lecture 2 hours. Prerequisite: Speech 1113.
- 2443 FUNDAMENTALS OF RADIO AND TELEVISION, *3 hours credit*
The evolution, organization, and function of broadcasting. Introduction to the techniques used in radio and television broadcasting. Lecture 3 hours. Prerequisite: Speech 1133 or permission.
- 2533 ORAL INTERPRETATION OF LITERATURE, *3 hours credit*
A beginning study and practice in the 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. Prerequisite: Speech 1113.

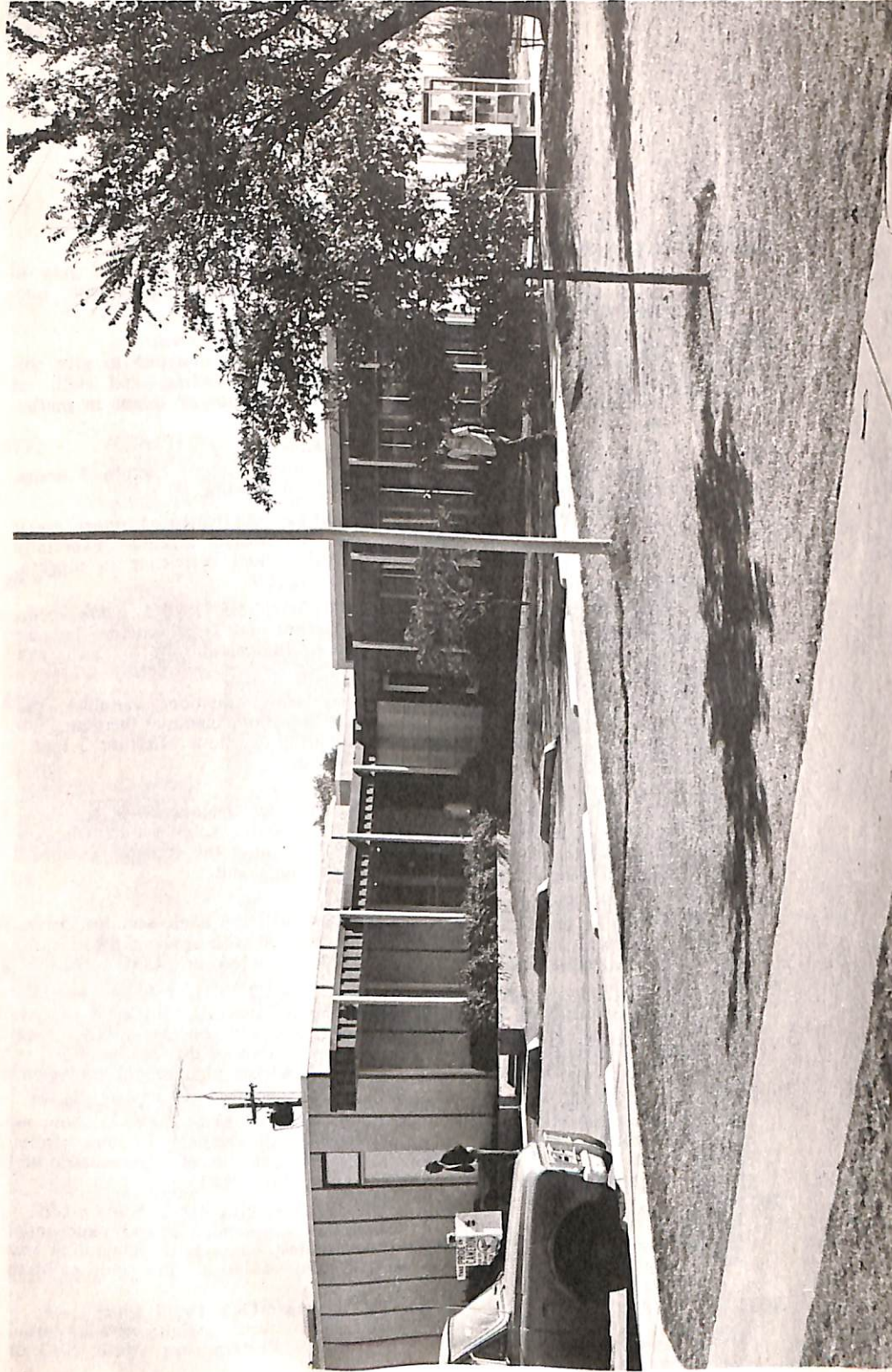
- 3113 **ADVANCED PUBLIC SPEAKING, 3 hours credit**
An advanced study of the principles of speaking, with particular attention to speech composition and public address for special occasions such as extemporaneous, after-dinner, radio, and other such speeches. A continued emphasis on the development of speech making ability. Lecture 3 hours.
- 3121 **FORENSICS LABORATORY, 1 hour credit**
Preparation for and participation in intercollegiate competitive speech activities including debate, discussion, original oratory, extemporaneous speaking, and oral interpretation. May be repeated for a total of 4 hours. Prerequisite: Speech 2143.
- 3232 **STAGE MAKE-UP AND COSTUME, 2 hours credit**
General principles in the design and construction of costumes and make-up for the stage. Lecture 2 hours. Prerequisite: Speech 2212.
- 3303 **ADVANCED ACTING, 3 hours credit**
Advanced course in acting focused on the development of character and styles in acting. Lecture 3 hours. Prerequisite: Speech 2213.
- 3333 **ADVANCED TECHNICAL PRODUCTION, 3 hours credit**
Theory and practice of advanced stage design, stagecraft, lighting and theater costuming. Lecture 3 hours. Prerequisite: Speech 2113.
- 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. Prerequisite: Speech 2312 or permission.
- 3373 **HISTORY OF SPEECH AND SPEECH EDUCATION, 3 hours credit**
Examines and compares the classical philosophies of speech and speech education from 500 B.C. to the present, with emphasis placed upon the speech situation, audience, issues, and American speakers. Lecture 3 hours. Prerequisite: 8 hours speech.
- 3383 **HISTORY OF THE THEATRE, 3 hours credit**
A study of the history and development of theatre from the Greeks to the present. Lecture 3 hours. Prerequisite: Speech 2212.
- 3413 **SPEECH DEVELOPMENT AND CORRECTION, 3 hours credit**
Study of the development of speech and language in the child; speech and language disorders including delayed speech problem, and other speech problems. Lecture 3 hours. Prerequisite: Speech 1133 or permission.
- 3533 **ADVANCED ORAL INTERPRETATION, 3 hours credit**
Analytical study of literary forms, emphasizing modern American poetry and its differentiation for oral expression. Lecture 3 hours. Prerequisite: Speech 2233.
- 3633 **PERSUASION, 3 hours credit**
A study of persuasive communication, including theories of human motivation; audience analysis; methods of adaptation; emotional, logical and rhetorical appeals; and special emphasis on ethical responsibilities of speaker and listener. Analysis, preparation and presentation of persuasive messages. Lecture 3 hours. Prerequisite: Speech 1113 or permission.

- 4323 **DIRECTING, 3 hours credit**
A study of the function and responsibilities of the director in theatre. Each student functions as director in a series of assigned scenes. Lecture 3 hours. Prerequisite: Speech 3303.
- 4523 **THE PSYCHOLOGY OF COMMUNICATION, 3 hours credit**
Critical examination of psychological factors underlying speech comprehension, the speaker's adjustment to an audience, the listener's expectancy and responses, and the attitudes, beliefs, and predispositions of hearers toward the appeal of the spoken word. Lecture 3 hours. Prerequisite: 10 hours of Speech.
- 4772 **TEACHING SPEECH IN THE SECONDARY SCHOOL, 2 hours credit**
Study of the basic content and general principles of speech appropriate to the secondary school program; organization of materials, procedures, and techniques of instruction. Lecture 2 hours. Prerequisite: Department permission and 20 hours of Speech.



MATHEMATICS

- 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.
- 1043 **INTERMEDIATE ALGEBRA, 3 hours credit**
Introductory algebra of the real number system. Lecture 3 hours. Prerequisite: One year of high school algebra.
- 1045 **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.
- 1165 **COLLEGE ALGEBRA AND TRIGONOMETRY, 5 hours credit**
An integrated course in College Algebra and Trigonometry. Lecture 5 hours. Prerequisite: Math 1043 or equivalent.
- 1173 **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 1043 or equivalent.
- 1183 **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 1173 or equivalent.
- 1195 **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 1173 and 1183 or Math 1165.
- 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 1173 and 1183; or 1165; or high school equivalent.
- 2013 **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 1195.
- 2033 **CALCULUS AND ANALYTIC GEOMETRY IV, 3 hours credit**
A continuation of 2023. Includes vectors; infinite series; partial derivatives; and multiple integration. Prerequisites: Math 2013 or Math 2234.



- 2213 **INTRODUCTION TO MODERN ABSTRACT ALGEBRA, 3 hours credit**
Elementary topics of number theory; equivalence relations; Boolean algebra; groups, fields, rings, and ideals; matrices and determinants. Lecture 3 hours. Prerequisite: Math 1195 or Math 2013.
- 2234 **MATH ANALYSIS II, 4 hours credit**
Transcendental functions, techniques of integration, polar coordinates, vectors in the plane. Lecture 4 hours. Prerequisite: Math 1195 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.
- 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 1195 or Math 2013.
- 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 2244 or Math 2033.
- 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 1195 or Math 2013, or Departmental permission.
- 3343 **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.

- 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 in 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.
- 4483 INTRODUCTORY REAL ANALYSIS, *3 hours credit*
A study of the basic concepts of analysis, elementary set theory, the real numbers, sequences, series, real function, derivatives, and integrals. Lecture 3 hours. Prerequisite: Math 2244 or Math 2033, 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.

MILITARY SCIENCE

- 1012 **FOUNDATIONS OF NATIONAL SECURITY, 2 hours credit**
The introductory courses 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 **20TH CENTURY MILITARY HISTORY AND LEADERS, 2 hours credit**
A continuation of Dimensions of Military Leadership. A study of significant events of the 20th Century and analysis of the traits of the leaders concerned. Lecture 2 hours, laboratory 2 hours. Prerequisite: MS 2012.
- 3013 **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: MS 2012 and MS 2022, or attendance at ROTC basic summer camp, and permission of the Assistant 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. Prerequisite: MS 3013.
- 3000-3* **BASIC SUMMER CAMP, 0-3 hours credit**
The camp is a six-week training period conducted during the summer. The camp includes instruction in basic military subjects and applied leadership training designed to meet the prerequisites of the advanced two-year program. Prerequisites: Sophomore standing and permission from the Assistant Professor of Military Science.
- 4004 **ADVANCED SUMMER CAMP, 4 hours credit**
A six weeks training period required of all advanced course students between their junior and senior years and a prerequisite for commissioning. Students will receive one-half of a Second Lieutenant's pay for the training period and will be paid for transportation to and from the camp.

* Enrollment in MS 3000-3 will be during the summer preceding the admission to the advanced two-year program. MS 3000-3 will not satisfy general education requirements. No more than 8 hours credit in Military Science may be earned preceding admission to the advanced two-year program.

- 4013 **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. Prerequisite: MS 3023.
- 4023 **WORLD CHANGE AND MILITARY IMPLICATION, 3 hours credit**
 An in-depth study of the role of the U.S. in international affairs. A comparison of the U.S. defense forces with other nations of the world. Conferences and seminars characterize the instruction with students conducting area studies. Lecture 4 hours, laboratory 2 hours. Prerequisite: MS 4013.



MUSIC

- 1000 CONCERT AND RECITAL ATTENDANCE, *zero credit*
Each semester. A required course for music majors; not open to others. Each semester the music faculty will set up a list of concerts and recitals occurring in the Lawton area during the semester and music majors must have a 75% attendance each semester in residence to qualify for graduation.
- 1001 PIANO CLASS, *1 hour credit*
An introduction to the technique of playing the piano for the student with no previous piano instruction. Class 2 hours, practice 5 hours per week.
- 1011 PIANO CLASS, *1 hour credit*
Continuation of 1001. Second semester. Class 2 hours. Practice 5 hours per week. Prerequisite: Music 1001 or equivalent.
- 1021 VOICE CLASS, *1 hour credit*
An introduction to the technique of singing for the student with no previous vocal instruction. Class 2 hours, practice, 3 hours per week.
- 1031 VOICE CLASS, *1 hour credit*
Continuation of 1021. Second semester. Class 2 hours, practice 3 hours per week. Prerequisite: Music 1021 or equivalent.
- 1041 BEGINNING WOODWIND CLASS, *1 hour credit*
The study of the flute, oboe, clarinet, and bassoon; basic concepts of playing and teaching woodwind instruments. Class 2 hours.
- 1051 INTERMEDIATE WOODWIND CLASS, *1 hour credit*
The study of a limited repertoire and methods for the woodwind instruments. Class 2 hours. Prerequisite: Music 1041 or equivalent.
- 1061 BRASS CLASS, *1 hour credit*
The study of the trumpet, trombone, French horn and tuba; basic concepts.
- 1071 INTERMEDIATE BRASS CLASS, *1 hour credit*
The study of a limited repertoire and methods for the brass instruments. Class 3 hours. Prerequisite: Music 1061 or equivalent.
- 1081 BEGINNING STRING CLASS, *1 hour credit*
The study of the string choir; basic concepts of playing and teaching string instruments. Class 3 hours.
- 1091 INTERMEDIATE STRING CLASS, *1 hour credit*
The study of a limited repertoire, ensemble playing and teaching methods of stringed instruments. Class 3 hours. Prerequisite: Music 1081 or equivalent.
- 1111 CAMERON COLLEGIATES, *1 hour credit*
The study and performance of choral music of a wide variety. Open to all college students. May be repeated for credit. Class 2 hours.
- 1121-2 CAMERON SINGERS, *1-2 hours credit*
The study and performance of choral music of a wide variety. Open to all college students by audition. May be repeated for credit. Class 4 hours.

- 1151-2 **BAND, 1-2 hours credit**
The study and performance of original and transcribed concert literature for band. Performance at public events. Open to all college students. Class 4 hours.
- 1212 **MUSIC LITERATURE, 2 hours credit**
Required of all music majors. Study of the development of musical styles and listening technique; use of musical materials, textures, etc. Lecture, reports, listening laboratory. Class 3 hours.
- 1222 **MUSIC LITERATURE, 2 hours credit**
Continuation of the study of styles and materials in music. Lecture reports, listening laboratory. Class 3 hours. Prerequisite: Music 1212.
- 1771 **STAGE BAND, 1 hour credit**
The study and performance of popular music for the modern dance orchestra. Class 3 hours.
- 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, 2 hours credit**
Primarily for non-music majors. Designed to bring about increased awareness of our cultural heritage through an acquaintance with music in a variety of styles. The course will include listening to recorded music and live performances, group discussion, lectures and assigned readings. Class 2 hours.
- 2022 **MUSIC APPRECIATION, 2 hours credit**
Continuation of Music 2012. Class 2 hours.
- 2841 **PERCUSSION CLASS, 1 hour credit**
A study of fundamentals of all percussion instruments. Class 2 hours.
- 2912 **ELEMENTARY HARMONY I, 2 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.
- 2922 **ELEMENTARY EAR TRAINING I, 2 hours 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. Correlated with Music 2912. Prerequisite: Music 1901 or passing grade on theory evaluation test. Class 2 hours.
- 2932 **ELEMENTARY HARMONY II, 2 hours credit**
A continuation of Music 2912. Prerequisite: Music 2912. Class 3 hours.
- 2942 **ELEMENTARY EAR TRAINING II, 2 hours credit**
A continuation of Music 2922. Prerequisite: Music 2922. Class 2 hours.
- 3101 **PRINCIPLES OF CONDUCTING, 1 hour credit**
A beginning course in the principles of both choral and instrumental conduction. 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.
- 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.
- 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.
- 3151 **ENSEMBLE, 1 hour credit**
Vocal and instrumental small ensembles. Class 2 hours. Prerequisite: Permission.
- 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.
- 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.
- 3552 **OPERA WORKSHOP, 2 hours credit**
Opera production and performance; staging, properties, scenery, directing, singing. Class 2 hours, laboratory sessions to be arranged.
- 3712 **ELEMENTARY MUSIC METHODS, VOCAL, 2 hours credit**
A professional course for students preparing to teach elementary school vocal music. Includes philosophies, child psychology and specific music techniques. Class 3 hours. Prerequisite: Permission.
- 3722 **SECONDARY MUSIC METHODS, VOCAL, 2 hours credit**
A continuation of Elementary Music Methods with the same ideas relating to secondary schools. Class 3 hours. Prerequisite: Permission.
- 3732 **ELEMENTARY MUSIC METHODS, INSTRUMENTAL, 2 hours credit**
A professional course for students preparing to teach elementary school instrumental music. Includes philosophies, child psychology and specific music techniques. Class 3 hours. Prerequisite: Permission.

- 3742 SECONDARY MUSIC METHODS, INSTRUMENTAL,
2 hours credit
A continuation of Elementary Music Methods, with the same ideas related to secondary schools. Class 3 hours. Prerequisite: Permission.
- 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.
or concurrent: Chemistry 1314.
- 3912 ADVANCED HARMONY I, 2 hours credit
Part-writing using diatonic 7th chords and modulation; styles of writing other than chorale. Keyboard study of harmonic progressions melody requiring diatonic 7th chords. Prerequisite: Music 3932. Class 2 hours.
- 3922 ADVANCED EAR TRAINING I, 2 hours credit
Aural study of rhythmical superimposition, compound intervals, melodic and harmonic modulation, diatonic 7th chords, and modal melodies. Correlated with Music 3812. Prerequisite: Music 2942. Class 2 hours.
- 3932 ADVANCED HARMONY II, 2 hours credit
A continuation of Music 3912. Prerequisite: Music 3912. Class 3 hours.
- 3942 ADVANCE EAR TRAINING II, 2 hours credit
A continuation of Music 3922. Prerequisite: Music 3922. Class 2 hours.
- 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 3932.
- 4412 COUNTERPOINT, 2 hours credit
A study of the several species of counterpoint. Original writing in two parts. Class 2 hours. Prerequisite: Music 3932.

- 4413 **PIANO PEDAGOGY, 3 hours credit**
Study of teaching techniques and materials for class and private instruction. Class 3 hours. Prerequisite: Permission.
- 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. Prerequisite: Music 3932. Class 2 hours.



NURSING

- 1015 **FUNDAMENTALS OF NURSING I, 5 hours credit**
Introduction to the role of the nurse in meeting the needs common to all patients. Opportunity is given the student to learn the knowledge and skills and attitudes necessary to the practitioner of nursing, based on physical, biological, and behavioral science principles. Lecture, demonstration, discussion, and audio-visual aids are used in the classroom. Provision is made for supervised practice in the clinical area. Pre- and post-clinical conferences orient the nursing student to evaluate the results of planned patient-centered care. First semester. Lecture 3 hours, laboratory 4 hours.
- 1025 **FUNDAMENTALS OF NURSING II, 5 hours credit**
Continuation of Nursing 1015. Additional fundamental nursing knowledge and techniques. Emphasis upon common patient problems of physiologic nature. Supervised practice in the clinical areas. Patient centered pre- and post-clinical conferences. Second semester. Lecture 3 hours, laboratory 6 hours. Prerequisite: Nursing 1015.
- 1035 **MATERNAL—CHILD NURSING, 5 hours credit**
This course deals with the physiological, psychological, emotional, social and spiritual factors involved in maternal and child care. The family centered approach is used. The family unit serves as a framework for the study of the nursing care of mothers during the maternity cycle and of infants and children from birth through adolescence. The normal aspects of maternal and child care are stressed. Adaptations are made to include common complications occurring during the maternity cycle, as well as illnesses occurring commonly in particular age groups. The study of drugs commonly used in the care of maternity patients, infants and children are included in the course. In the clinical laboratory, students have the opportunity to care for maternity patients, infants, and children under supervision. Pre- and post-clinical conferences are held in conjunction with all laboratory experiences. Provision is made for field trips to agencies rendering care to mothers, infants, and children. Second semester. Lecture 3 hours, laboratory 6 hours. Prerequisite or concurrent: Nursing 1025.
- 2048 **NURSING IN PHYSICAL AND MENTAL ILLNESS I, 8 hours credit**
This course is designed to provide a broad background in information which will enable the nursing student to further develop the knowledge and nursing skills which will enable her to provide nursing care designed to meet each patient's particular needs. Through the study of the major areas of illness in the United States and consideration of the scope, prevention, diagnosis, treatment and control of each, the nursing student will be equipped to recognize and meet nursing problems she encounters. Deviations from normal growth and development which predispose to illness are presented, as are the psychological, psychosomatic, cultural, and socio-economic factors which may cause, complicate or affect the treatment. Consideration of the rehabilitative aspect of nursing care is also given which includes providing knowledge about and effective use of available community agencies. Through classroom lecture and discussion, use of visual materials, and selected, guided laboratory and

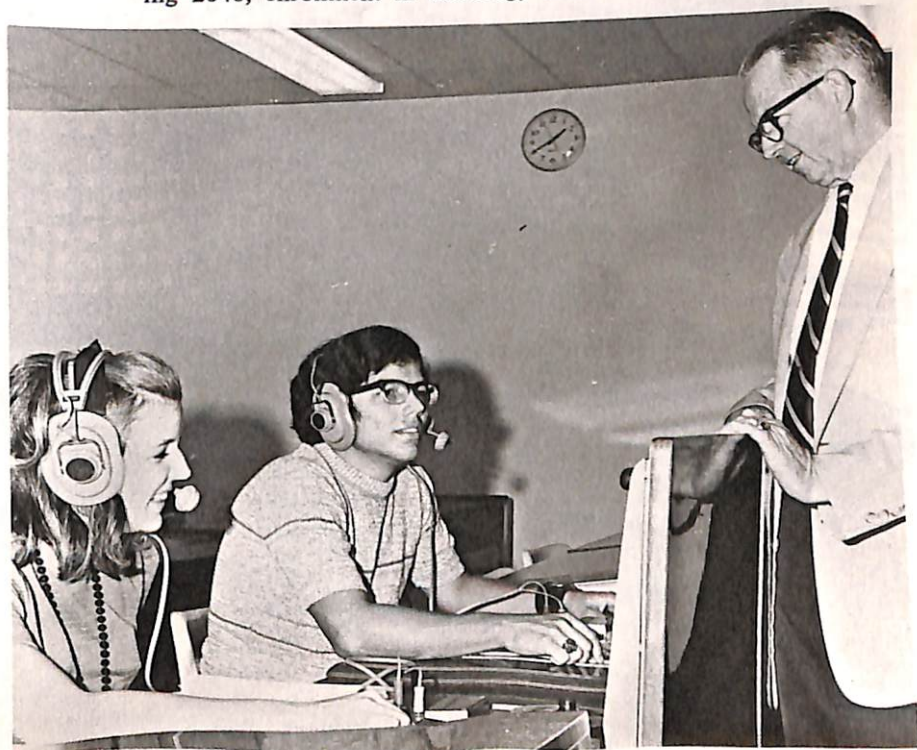
field experiences, the student will develop skill in recognizing symptoms of diseases, understanding limitations imposed by illness, and providing nursing care designed to meet patient's needs. Third semester. Lecture 5 hours, laboratory 9 hours. Prerequisite: Nursing 1035, enrollment in Psychology 1113 and Bacteriology 2033.

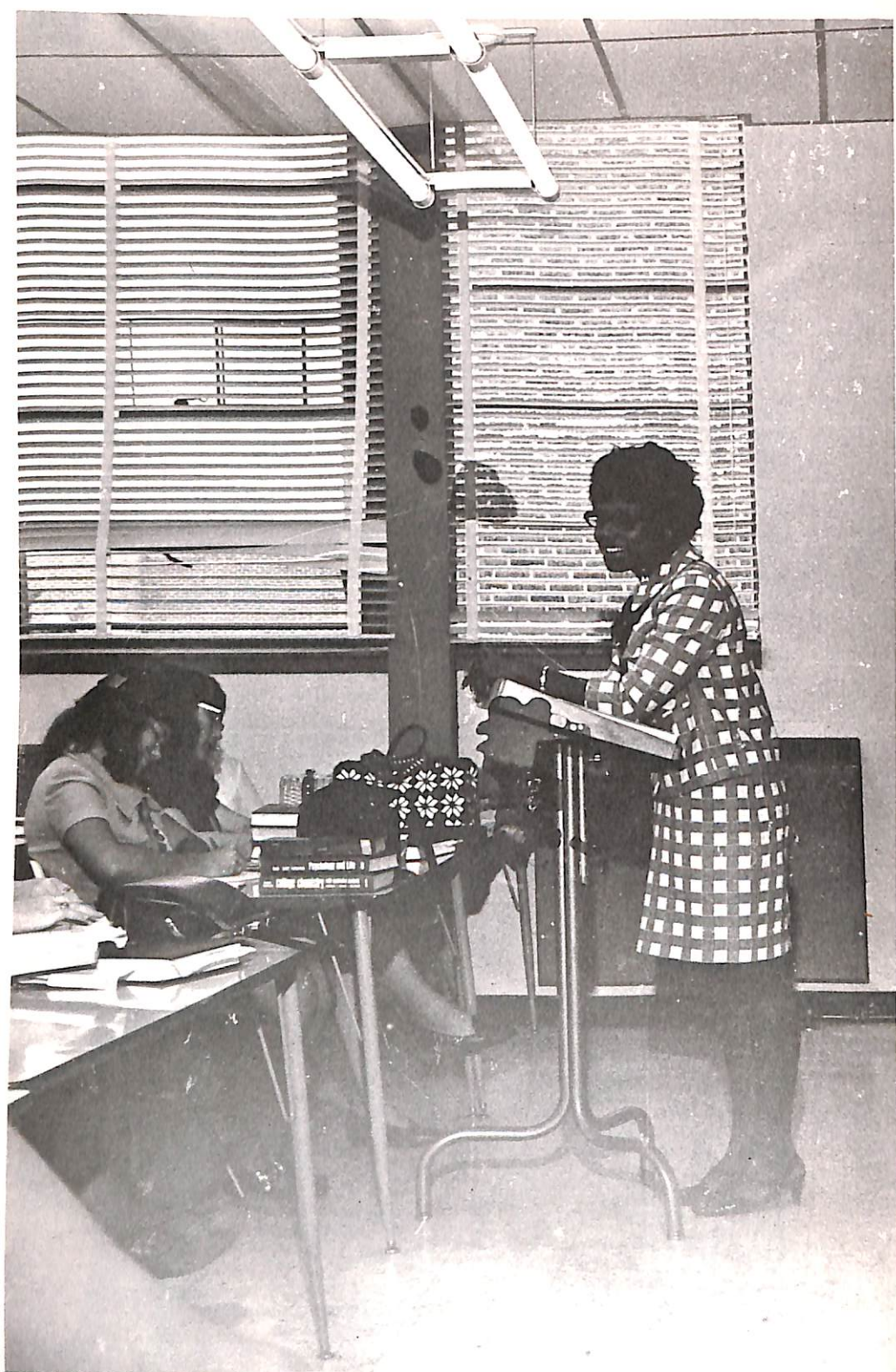
2510

NURSING IN PHYSICAL AND MENTAL ILLNESS II,

10 hours credit

Continuation of Nursing 2048. This course stresses the philosophy that the nurse-patient relationship is basic to all nursing care. The course of study begins with basic concepts of personality and behavior that the nurse may utilize in all areas of nursing and progresses to a deeper inspection of psychological processes that will help the student understand the extreme deviations from "normal" features of patients on psychiatric services. The material is so arranged that each concept, as it is introduced, creates a background for the emotional needs of all patients; nurse-patient relationships; milieu therapy and related nursing techniques; psychodynamic concepts of the human mind and personality development; neurotic and psychotic reactions; psychiatric treatment measures; and team relationships. The program offers experience in collaborative psychiatrists, social workers, psychologists, and others and provides planned learning experience in other health agencies as well as the general hospital setting. Fourth semester. Lecture 5 hours, laboratory 15 hours. Prerequisite: Nursing 2048, enrollment in Sociology 2013.





PHYSICAL SCIENCE

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.
- 1314 (1014) **GENERAL CHEMISTRY, 4 hours credit**
A beginning course in the fundamental concepts and theories of chemistry, and application of these principles to selected elements and compounds. Lecture 4 hours, laboratory 2 hours. Prerequisite: Math 1043 or 4 semesters of high school algebra.
- 1414 (1024) **GENERAL CHEMISTRY, 4 hours credit**
The application of the principles of chemistry to the descriptive chemistry of the elements. Lecture 4 hours. Laboratory 2 hours. Prerequisite: Chemistry 1314.
- 1515 (1115) **HONORS GENERAL CHEMISTRY, 5 hours credit**
Cover the material in both Chemistry 1314 and Chemistry 1414 but in one semester. Lecture 4 hours, laboratory 3 hours. Prerequisite: Departmental approval.
- 2112 **THEORY OF CHEMICAL ANALYSIS, 2 hours credit**
Modern theories of solutions of electrolytes applied to analytical chemistry. Lecture 2 hours. Prerequisite: Chemistry 1515 or equivalent.
- 2222 **QUALITATIVE ANALYSIS, 2 hours credit**
Analysis for common cations, anions, and acid radicals by semi-micro laboratory techniques. Laboratory 6 hours. Prerequisite: Chemistry 2112 or concurrent enrollment.
- 2223 **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.
- 2204 **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 1314.
- 3314 **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 1515 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. Lecture 1 hour, laboratory 6 hours. Prerequisite: Chemistry 3324.
- 3345 **ORGANIC CHEMISTRY, 5 hours credit**
A one semester course offered as an introduction to the fundamentals of organic chemistry and methods of preparation and reactions of aliphatic and aromatic compounds. Lecture 3 hours, laboratory 4 hours. Prerequisite: Chemistry 1414 or equivalent.
- 4333 **INORGANIC CHEMISTRY, 3 hours credit**
A survey of all 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, includes application of thermo-dynamics, 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.
- 4414 **ADVANCED QUANTITATIVE ANALYSIS, 4 hours credit**
An introductory course in instrumental methods of analysis, major emphasis upon electrometric and colormetric techniques and instruments. Lecture 2 hours, laboratory 6 hours. Prerequisite: Chemistry 4363.
- 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 a physical science 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: 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.
- 1114 (1014) **PHYSICS I, 4 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 1183 or 1165.
- 1214 (1024) **PHYSICS II, 4 hours credit**
A beginning lecture and laboratory study of the fundamental principles of electricity, magnetism, light, and modern physics. Lecture 4 hours, laboratory 2 hours. Prerequisite: Physics 1114.
- 2014 **MECHANICS, HEAT AND SOUND, 4 hours credit**
An introduction to the fundamental concepts of mechanics, heat and sound. Designed for Science, Mathematics, and Engineering majors. Lecture 4 hours, laboratory 2 hours. Prerequisite: Concurrent enrollment in Math 1195.
- 2024 **ELECTRICITY AND LIGHT, 4 hours credit**
An introduction to the fundamental concepts of electricity, light, and modern physics. A continuation of Physics 2014. Lecture 4 hours, laboratory 2 hours. Prerequisites: Physics 2014 and Math 1195.
- 2033 **MODERN PHYSICS, 3 hours credit**
Topics in atomic physics, nuclear physics, and solid state physics. Lecture 3 hours. Prerequisites: Math 1195 or concurrent enrollment in Math 1195, Physics 2024 or permission.
- 2041 **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. Prerequisites: Physics 2033 or concurrent enrollment in

Physics 2033. Laboratory 3 hours. Prerequisites: Physics 2033 or concurrent enrollment.

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 2024 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 2033.

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 2024 or permission.

3313

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 2024 or permission.

3403

HEAT AND THERMODYNAMICS, 3 hours credit

Non-mechanical energy, gas thermometer and absolute temperature, heat transfer, first and second law of thermodynamics, Carnot-cycle, Otto-cycle, and statistical thermodynamics. Lecture, 3 hours. Prerequisite: Math 2234, Physics 2024 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 2024, Math 1195.

4453

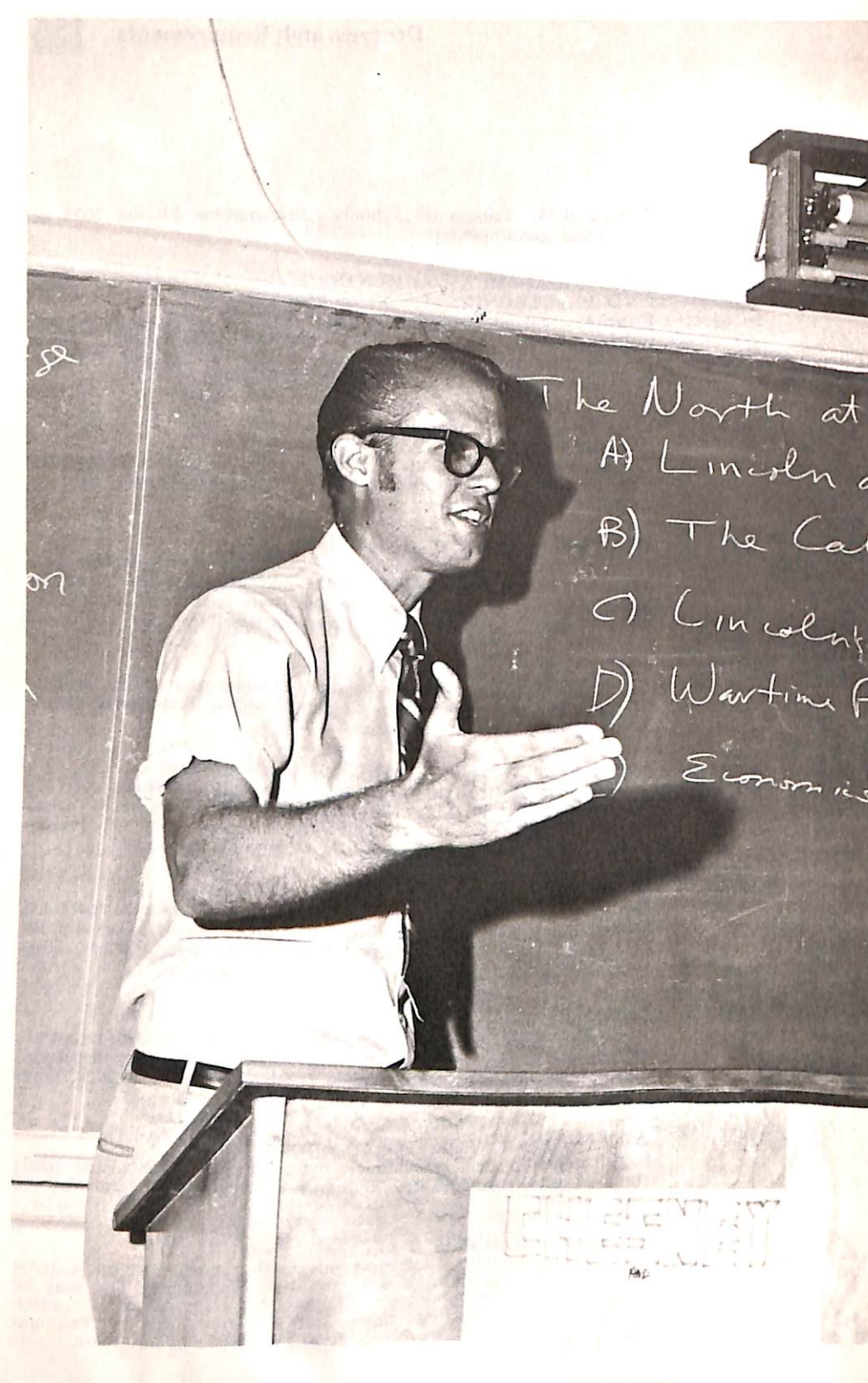
ADVANCED LABORATORY, 3 hours credit

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 classwork 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.



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SOCIAL SCIENCE

Geography

- 2213 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.
- 3013 PHYSICAL GEOGRAPHY, *3 hours credit*
A basic introduction to physical geography and the physical elements of environment. 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. Prerequisites: Geography 2213 and 3023 or History 2013 and 2023.

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, Far 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.
- 2013 UNITED STATES HISTORY TO 1865, *3 hours credit*
Introductory survey from European backgrounds through the Civil War. Lecture 3 hours.
- 2023 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 with emphasis on the ABC nations 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 2013.
- 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 2013 and 2033.
- 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 by the courts. Also listed as Government 3133. Lecture 3 hours. Prerequisite: History 2013 and Government 2013.
- 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. Prerequisite: History 2013 and 2023.
- 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 Negro in the history of the United States, and upon the institutional relationships that have developed as a result of his presence in the United States. Lecture 3 hours. Prerequisites: History 2013 and 2023.
- 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 2013.

- 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 2023.
- 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. (Also listed as Political Science 4033.) Prerequisite: History 2013 and 2023.
- 4263 **AMERICAN COLONIAL HISTORY, 3 hours credit**
The political, economic, social, and cultural history of the Colonies in North America from the earliest discoveries to the formation of the Constitution. Lecture 3 hours. Prerequisite: History 2013 and 2023.
- 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 2013 and 2023.
- 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 2013.
- 4293 **RECONSTRUCTION AND TRANSITION IN THE UNITED STATES, 3 hours credit**
Political, constitutional and social issues of reconstruction after the Civil War of the 1860's, with special attention to the rise of modern industrialism, the organization of labor and the farmers, the disappearance of the frontier and the Spanish American War. Lecture 3 hours. Prerequisite: History 2023.
- 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.
- 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 2013 and 2023.
- 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.
- 4792 **SENIOR SEMINAR IN HISTORY, 2 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.
- 4960-3 **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. Prerequisite: Sophomore standing.

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 standard of conduct, problems of personal morality, and the question of individual freedom versus social responsibility. Prerequisite: Philosophy 2213.

4782

PHILOSOPHY OF HISTORY, 2 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, to categorize the explanations used by historians, and to discover recurring patterns and inevitable laws.



Political Science

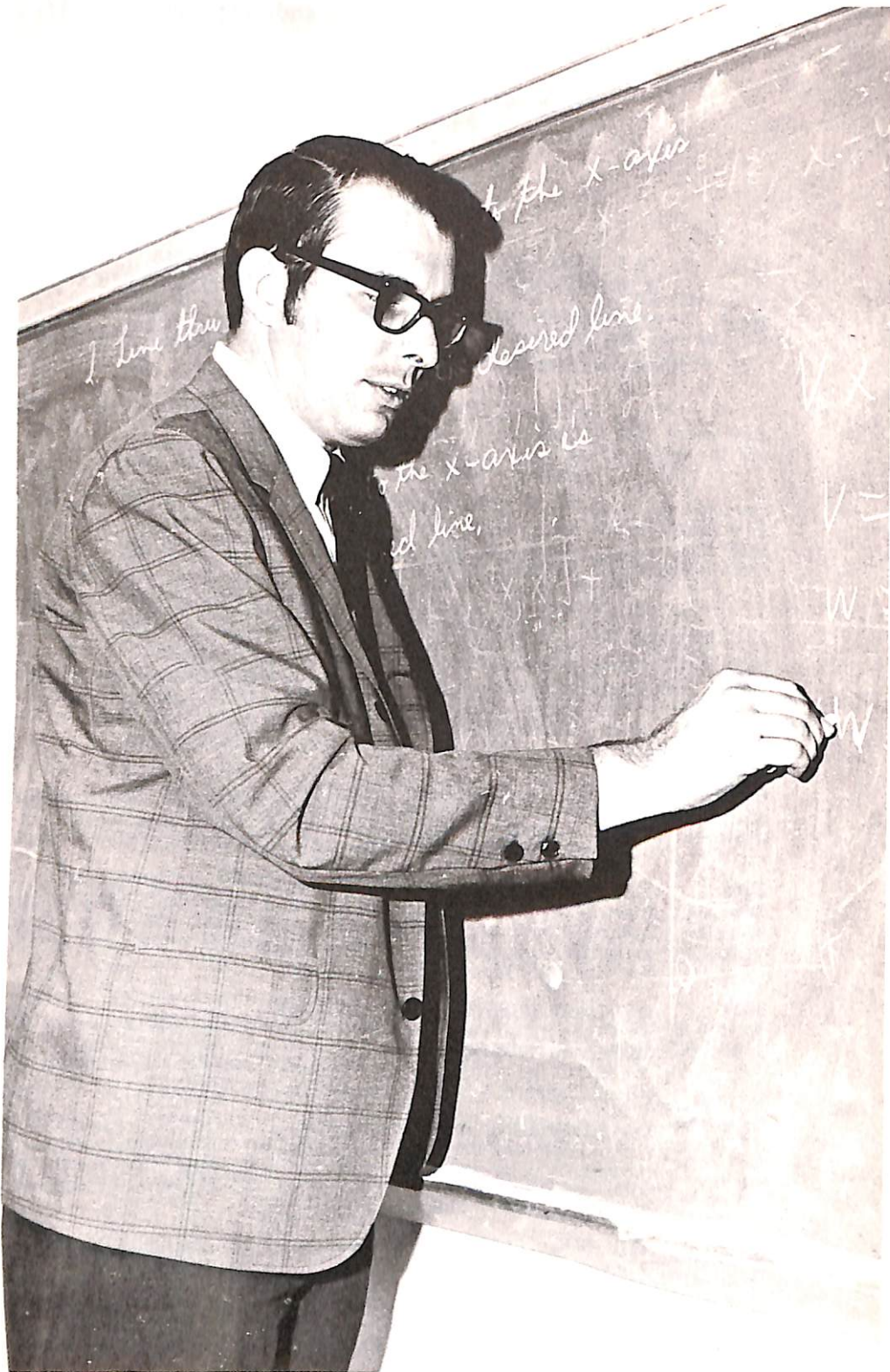
- 2013 **AMERICAN FEDERAL GOVERNMENT, 3 hours credit**
A study of the American governmental system. The American experiment in federalism and democratic origin, and development of the United States Constitution; federal-state relations, civil liberties, the individual as a citizen; political parties; governmental services. Lecture 3 hours.
- 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: Government 2013.
- 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: Government 2013, Junior Standing or Departmental permission.
- 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 by the courts. Also listed as History 3133. Lecture 3 hours. Prerequisite: Government 2013 and History 2013.
- 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: Government 2013.
- 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: Government 2013.
- 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. (Also listed as History 4033.) Prerequisite: History 2013 and 2023.
- 4052 **PROBLEMS OF AMERICAN FOREIGN POLICY, 2 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 of action are determined and carried out by federal agencies, and an intensive examination of major alternatives to the existing policies. Prerequisite: Government 3213 or permission of instructor.

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

- 1023 FAMILY RELATIONS, *3 hours credit*
A course including human development, behavior and relationship in our society with emphasis on social and emotional needs of the students. Also listed as Home Economics 1023. Lecture 3 hours.
- 2013 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.
- 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 2013 or 2023.
- 3023 DEVIANT BEHAVIOR, *3 hours credit*
The concept of deviance in Sociology and its implications for the analysis of contemporary social behavior. The application of this concept to the study of mental health, alcoholism, drug addiction and crime. Lecture 3 hours. Prerequisite: Sociology 2013 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. Prerequisite: Sociology 2013 or Philosophy 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 2013 or 2023.



TECHNICAL EDUCATION

Aviation Education

- 1013 **THEORY OF FLIGHT, 3 hours credit**
A ground school course, including theory of flight, power plants, inspection and service of aircraft, principles of navigation and meteorology, communications and civil air regulations. The course fulfills the ground school training needed for the Private Pilot's Certificate. Lecture, 3 hours.
- 2013 **ADVANCED THEORY OF FLIGHT, 3 hours credit**
A ground school course covering advanced Aerodynamics and theory of flight, radio navigation and procedure, advanced navigation and procedure, operation and inspection of airplanes and airplanes power plants, communications and advanced meteorology. The course is designed to help prepare students for the F. A. A. Commercial Pilot's written examination. Lecture, 3 hours. Prerequisite: Private Pilot's License.
- 2124 **THEORY OF INSTRUMENT FLYING, 4 hours credit**
An IFR ground school course, including aircraft instrument flight charts and flight planning, advanced meteorology, radio communications frequencies and procedures, radio navigation aids such as the VOR (VHF Omni Range), ILS (Instrument Landing Systems), ADF (Automatic Direction Finding) orientation procedures, holding pattern entries and intersection delays, enroute procedures, transitioning from Air Route Traffic Control Centers to Approach Control Facilities and the precision instrument approach. The course is designed to aid the student in preparation for the F.A.A. Instrument Pilot written examination. Lecture 4 hours. Prerequisite: Private Pilot's License.

Data Processing

- 1013 **INTRODUCTION TO DATA PROCESSING, 3 hours credit.**
A survey course with emphasis on the application of Data Processing as it affects the field of business, flowcharting, and introduction to programming. Lecture 3 hours.
- 1024 **INTRODUCTION TO PROGRAMMING AND PUNCH CARD EQUIPMENT, 4 hours credit**
Basic design, coding and processing of punched cards. Operation of the 026 Printing Card Punch and 082 Sorter. An introduction to machine language programming and computer operation. Lecture 2 hours, laboratory 4 hours. Prerequisite: Restricted to Data Processing majors.
- 1053 **PROGRAMMING I, 3 hours credit**
Computer operation, basic machine language, programming involving housekeeping routines, looping, indirect addressing, address modification, and debugging. Lecture 2 hours, laboratory 2 hours. Prerequisite: Restricted to Data Processing majors.

- 1123 INTRODUCTION TO PUNCH CARD EQUIPMENT, *3 hours credit*
Basic design, coding and processing of punched cards, operation of the keypunch, sorter, collator, interpreter, and accounting machine. 2 hours credit, 2 hours lab.
- 2001-2 SPECIAL PROBLEMS IN DATA PROCESSING, *1-2 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 3-6 hours. Prerequisite: Sophomore standing and departmental permission.
- 2043 COMPUTER PROGRAMMING II, *3 hours credit*
Includes machine and assembly programming, debugging, house-keeping techniques, loops, indexing, and subroutines. Lecture 2 hours, laboratory 2 hours. Prerequisite: Enrollment in Data Processing 1053.
- 2054 PROGRAMMING III (COBOL), *4 hours credit*
Cobol compiler language with applications, job-timing, programming, random access device, program testing, and teleprocessing. Lecture 3 hours, laboratory 2 hours. Prerequisite: Data Processing 2043 or instructor approval.
- 2063 PROGRAMMING IV (FORTRAN), *3 hours credit*
Fortran IV compiler language, subscripted variables, input-output operations, functions and subroutines, and scientific applications. Lecture 2 hours, Lab 2 hours.
- 2163 PROGRAMMING VI, *3 hours credit*
The study of various programming languages and techniques as determined by the state of the art and technological advances. Lecture 2 hours, Lab 2 hours.
- 2173 PROGRAMMING V (3RD GENERATION ASSEMBLY PROGRAMMING), *3 hours credit*
Assembly language programming for RCA Spectra 70 and IBM 360 computers. Includes use of File Control Processor macros, and programming problems, involving fixed word length and variable word length data. Lecture 2 hours, laboratory 2 hours. Prerequisite: DP 2054 or instructor approval.
- 2082 (282) ADVANCED PROGRAMMING PROBLEMS, *2 hours credit*
A student is assigned a particular design problem in which he decides on the type of computer needed, card design, file organization, and writes the program using Cobol as the basic language, arithmetic subroutines in Fortran and input-output routines in machine and/or assembly language. Laboratory 6 hours. Prerequisite: Enrollment in Data Processing 3074.
- 3074 PROGRAMMING SYSTEMS DEVELOPMENT AND DESIGN, *4 hours credit*
Development of a computer processing system, application of intermediate computers, magnetic tape files, random access files, systems analysis and design, problems involved in introducing a computer, and management information technology. Lecture 4 hours. Prerequisite: Data Processing 2054.

Drafting and 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: Engineering Graphics 1013 or equivalent.
- 1042 **CIRCUIT DRAWING, 2 hours credit**
An introduction to the use and application of electronics components, and the techniques of representing these principles graphically to provide better understanding and communication between the design draftsman and the electronics engineer. Lecture 1 hour, laboratory 3 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: Drawing 1013.
- 2001-2 **SPECIAL PROBLEMS IN DRAFTING AND DESIGN, 1-2 hours credit**
Guidance in independent work. Assigned study projects which will include topics not covered in detail in the drafting curricula and based on student needs. Laboratory 3-6 hours. Prerequisite: Sophomore standing and 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: Drawing 1023.
- 2024 **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: Drawing 2013.
- 2034 **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: Engineering Graphics 1023 and Applied Mathematics 1114 or equivalent.
- 2064 **STRUCTURAL DESIGN, 4 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 4 hours, laboratory 2 hours. Prerequisite: Engineering Graphics 1023 and Applied Mathematics 1114 or equivalent.
- 2073 **INDUSTRIAL ILLUSTRATION, 3 hours credit**
The study of basic procedures used by industry to make three dimensional drawings. Drawings devoted to the actual industrial methods and problems for a better understanding of industrial needs. Lecture 1 hour, laboratory 4 hours. Prerequisite: Drawing 1023.

- 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: Enrollment in Math 1083 or equivalent.

Electronics

- 1013 **BASIC ELECTRONICS I, 3 hours credit**
The study of electrical terms and units; Ohm's law, Kirchhoff's Laws, network theorems, d-c circuit analysis and magnetism. Offered in night classes only. Lecture 2 hours, laboratory 3 hours.
- 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.
- 1023 **BASIC ELECTRONIC II, 3 hours credit**
The study of the basic principles of alternating current; phase relationships, inductance, capacitance, reactance, impedance, a-c circuit analysis and transformer theory. Lecture 2 hours, laboratory 3 hours. Prerequisite: Basic Electronics 1013 or equivalent.
- 1015 **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 or equivalent.
- 1033 **VACUUM TUBES, 3 hours credit**
A study of the physics of the vacuum tube circuits by graphical and analytical methods. The application of the vacuum tube as elementary amplifiers and rectifiers. Lecture 2 hours, laboratory 2 hours. Prerequisite: Electronics 1013 or equivalent.
- 1043 **SEMICONDUCTORS, 3 hours credit**
A study of the physics of the semiconductor. The solution of semiconductor circuits by graphical and analytical methods. The application of the semiconductor as elementary amplifiers and rectifiers. Lecture 2 hours, laboratory 2 hours. Prerequisite: Electronics 1013 or equivalent.
- 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. An integration of Electronics 1033 and 1043. Lecture 3 hours, laboratory 4 hours.
- 2001-2 **SPECIAL PROBLEMS IN ELECTRONICS, 1-2 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 3-6 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.

- 2124 **ELECTRONIC PRINCIPLES OF COMPUTERS, 4 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 3 hours, laboratory 3 hours. Prerequisite: Electronics 2064.
- 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. Prerequisites: Electronics 1024 and 1054.
- 3034 **AUTOMATIC CONTROL SYSTEMS, 4 hours credit**
An introduction linear automatic control systems. The analysis of elementary servomechanisms and process control systems. Lecture 3 hours, laboratory 3 hours. Prerequisite: Electronics 2014.
- 3044 **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: Elect. 2014 or equivalent.

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.
- 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**
A study of the rules and regulations concerning the gathering of evidence in criminal cases. Lecture 3 hours.
- 2053 **POLICE TRAFFIC FUNCTIONS, 3 hours credit**
A study of rules, regulations and procedures necessary for the handling of traffic. Lecture 3 hours.
- 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.

- 2073 **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.
- 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.

Technical Math

- 1014 **APPLIED MATH AND ALGEBRA, 4 hours credit**
An integration of math and algebra with emphasis on the application and the use of the slide rule. Lecture 3 hours, laboratory 2 hours.
- 1064 **DATA PROCESSING MATH, 4 hours credit**
A study of linear systems, matrices, determinants, linear programming, logic and Boolean algebra. Lecture 4 hours. Prerequisite: Math 1043.
- 1114 **APPLIED LOGARITHMS AND TRIGONOMETRY, 4 hours credit**
A study of trigonometry and logarithms with emphasis on the application and use of the slide rule. Lecture 3 hours, laboratory 2 hours. Prerequisite: Applied Math 1014 or equivalent.
- 2014 **APPLIED CALCULUS, 4 hours credit**
A study of differentiation, integration, and elementary differential equations with emphasis on the application and the use of mathematical tables. Lecture 3 hours, laboratory 2 hours. Prerequisite: Applied Math 1114 or equivalent.

INDEX

	Page		Page
Academic Regulations	35	Drafting Curriculum	99
Accounting Courses	112	Drama Courses	134
Accounting, Concentration in	75	Dropping Subjects, Fee for	45
Accreditation	9	Dropping Subjects, Procedure	39
Activities, Student	55	Economics Courses	113
Administration, Officers of	11	Educational Opportunity Grants	52
Admission Requirements	27	Education Courses	117
Advisors	49	Electronics Courses	168
Agriculture-Business Curriculum	96	Electronics and Mathematics	
Agriculture Courses	105	Degree	85
American College Tests	32	Electronics Curriculum	99
Art Courses	107	Elementary Education	77
Associate Degrees	40	Employment, Student	51
Athletics	56	English Courses	128
Attendance, Class	36	English, Major	81
Auditing Classes, Fees for	44	English, Teaching Certificate in	82
Automobile Parking Permit Fee	45	Enrollment Procedures	35
Aviation Courses	165	Evening Classes	63
Bachelors Degrees	40	Expenses	44
Biological Science Courses	109	Extension Courses	59
Biological Science Program	74	Extra-Curricular Activities	56
Board and Room	47	Faculty	13
Board of Regents	7	Faculty-Emeritus	19
Bookstore	55	Fees	44
Bootstrap Program	85	Financial Aids	50
Buildings	22	French Courses	130
Business Courses	112	Full-time Student	35
Business and Data Processing	76	Geography Courses	157
Business Program	75	Geology Courses	153
Business, Teaching Certificate in	76	General Education, Degree in	85
Business, Two-year Curriculum	102	General Education, Requirements	
Calendar School Year	2	General Education, Requirements	
Chemistry Courses	151	for Bachelors Degree	71
Chemistry Major	88	for Associate Degree	73
Classification of Students	36	German Courses	131
Clubs and Organizations	55	Grades, After Withdrawal	38
Counseling and Guidance	49	Grades to Parents	38
Course Loads	35	Grade Points	38
Course Numbering System	35	Graduation Requirements	40
Credit by Examination	65	Guidance and Counseling	49
Curricula Offered	67	Health Courses	121
Data Processing Curriculum	98	Health Services	56
Data Processing and Business		Health and Physical Education	
Degree	76	Program	79
Data Processing and Mathematics		History of Cameron	21
Degree	84	History Courses	157
Data Processing Courses	165	History, Major in	91
Degrees Offered	39	History, Teaching Certificate in	91
Degree Requirements,		Home Economics Courses	126
Bachelors	40	Home Economics Curriculum	126
Degree Requirements,		Housing	53
Associate	41	Humanities Courses	132
Discipline	37	Incomplete, Grades of	38
Dormitory Regulations	53	Insurance for Students	56
Drafting Courses	167	Job Placement	50

	<i>Page</i>
Journalism Courses	132
Language Arts Program	81
Late Enrollment	36
Law Enforcement	169
Library	55
Library Science Courses	133
Living Expenses	46
Loan Funds	52
Majors Offered	67
Mathematics Courses	137
Mathematics Program	83
Mathematics and Data Processing Degree	84
Mathematics and Electronics Degree	85
Military Science	42
Military Science Courses	141
Military Science Program	85
Minors	92
Music, Teaching Certificate in	86
Music Courses	143
Music Program	86
Music, Private Lessons Fee	44
National Defense Student Loans	52
Natural Science Major	89
Newspaper, The College	57
Night Classes	63
Nursing Courses	148
Nursing Program	96
Orientation	33
Part-time Student Defined	35
Philosophy Courses	160
Physical Education Courses	121
Physical Education Program	79
Physical Science Courses	151
Physical Science Program	88
Physics Courses	154
Piano Rental Fees	45
Placement	50
Political Science Courses	162
Post Office	56
Pre-Professional Programs	101
Probation, Scholastic	36
Psychology Courses	118
Publications	57

	<i>Page</i>
Re-Admission	32
Refunds	45
Registration	35
Regulations, Academic	35
Religious Education	163
Repeating Courses	3
Residence Policy	29
Retention Standards	36
Room and Board	47
Room Reservation of, in Dormitory	47
ROTC	42
Schedule, Changes of	39
Scholarships	50
Scholastic Probation	36
Secretarial Curriculum	103
Shorthand Courses	115
Social Science Program	91
Social Studies, Teaching Certificate in	92
Sociology Courses	163
Spanish Courses	131
Speech and Drama Curriculum	82
Speech and Drama, Teaching Certificate in	83
Speech Courses	34
Student Employment	51
Student Organizations	55
Summer Session	61
Suspension	36
Teacher Certificates	68
Teacher Certification	68
Teacher Education, Admission to	69
Technical Degrees offered	40
Technical Mathematics Courses	170
Testing	50
Typewriting Courses	116
Unsatisfactory Work	36
Veterans, Information for	43
Vocational Rehabilitation	50
Withdrawal from School	39
Workshops, Fees for	44
Work-Study Program	51
Yearbook	57