Southwest Texas State College

San Marcos, Texas

1964-65 CATALOG
SOUTHWEST TEXAS STATE COLLEGE

CONTENTS

Term Schedule, 1964-1965 ................................................................. 6
Air Force ROTC .................................................................................. 7
College Calendar, 1964-1965 ............................................................ 9
Directions to Students ........................................................................ 10
Fees and Expenses ........................................................................... 11
State Board of Teachers College Regents ......................................... 16
Officers of Administration ................................................................ 17
Instructional Chairmen ...................................................................... 17
Assistants .......................................................................................... 18
The Faculty ......................................................................................... 21
Retired Faculty .................................................................................. 32

The College

History .................................................................................................. 40
Accreditation ...................................................................................... 40
Location ............................................................................................... 40
College Plant ....................................................................................... 41
The Library .......................................................................................... 42
The Museum of Art and History ....................................................... 42
Huntington Statue ............................................................................. 42
The Laboratory School ...................................................................... 43

Public Services ................................................................................... 44
The Ex-Students Association ............................................................. 44
General Public Services .................................................................... 45
Placement Bureau .............................................................................. 46
Extension Division ............................................................................ 47

The Summer Session ......................................................................... 49

General Purpose of the College ....................................................... 50
Fundamental Principles and Policies ................................................ 50
Administrative Organizations ............................................................ 52

Student Personnel Services and Opportunities ................................ 54
Housing ............................................................................................... 54
Counseling Service ........................................................................... 62
Employment and Financial Aid ....................................................... 63
Scholarships ...................................................................................... 64
Loans .................................................................................................. 65
Student Activities and Organizations .............................................. 66
Honorary Organizations ................................................................... 68
Recreational Facilities ...................................................................... 72

Other Activities ................................................................................ 73
Athletics ............................................................................................. 73
Intramural Programs .......................................................................... 73
Music Organizations ......................................................................... 73
Dramatics and Forensics ................................................................. 75
Publications ....................................................................................... 75
Assembly Programs .......................................................................... 75
SOUTHWEST TEXAS STATE COLLEGE

Driving and Parking Regulations ........................................ 75
Car Registration Required ........................................ 75
Dead Week ....................................................................... 77

Admission and Graduation Requirements ................................ 78
Admission Requirements .................................................. 78
Standard of Work Required for Continuation in the College ........ 85
Certificate Requirements .................................................. 88

The College Curricula ...................................................... 91
Graduation Requirements in Academic Foundations .................. 92
Experimental Honors Program ............................................. 95
Curriculum for Elementary Teachers Leading to the Degree of
Bachelor of Science in Education ....................................... 95
Curriculum for Speech and Hearing Therapists Leading to the
Degree of Bachelor of Science in Education ......................... 98
Curriculum for Secondary School Teachers Leading to the Degree
of Bachelor of Science in Education ................................... 99
General Curriculum Leading to the Degree of
Bachelor of Arts .................................................................. 100
General Curriculum Leading to the Degree of
Bachelor of Science .......................................................... 101
Curricula Leading to the Degree of Bachelor of Science in
Home Economics ............................................................ 101
Curricula Leading to the Degree of Bachelor of Science in
Industrial Arts ................................................................ 102
Curricula Leading to the Degree of Bachelor of Science in
Agriculture ...................................................................... 103
Curriculum Leading to the Degree of Bachelor of
Music Education ................................................................ 105
Curriculum Leading to the Degree of Bachelor of Business
Administration ............................................................... 107
Curriculum Leading to the Degree of Bachelor of Science in
Commercial Art ............................................................ 108
Requirements for Second Teaching Fields (or Minors) ............. 109
Pre-Professional Curricula ................................................... 110

The Graduate School .......................................................... 112
The Graduate Council ....................................................... 112
Authorization .................................................................... 112
Objectives ....................................................................... 112
Administration .................................................................. 113
Admission to Graduate Study ............................................. 113
Admission to Candidacy for Master's Degree ......................... 114
Programs Leading to the Master of Arts Degree .................... 117
Programs Leading to the Master of Education Degree ............ 117

Divisions of Instruction ...................................................... 118
I. Division of Education and Directed Teaching ..................... 119
   Directed Teaching ......................................................... 119
   Courses in Education ..................................................... 121
SOUTHWEST TEXAS STATE COLLEGE

Courses in Special Education................................................. 129
Interdepartmental Courses.................................................. 130

II. Division of English, Journalism, and Speech.................... 131
    English................................................................. 131
    Journalism......................................................... 138
    Speech............................................................... 143
    Speech (Corrective)............................................... 148

III. Division of Fine Arts................................................... 151
    Art............................................................................. 151
    Music................................................................. 157

IV. Division of Foreign Language......................................... 166
    French.................................................................... 169
    German............................................................... 170
    Spanish.............................................................. 171

V. Division of Health and Physical Education....................... 173

VI. Division of Practical Arts............................................ 184
    Business Administration........................................ 184
    Home Economics.................................................. 190
    Industrial Arts................................................... 196

VII. Division of Sciences.................................................. 203
    Biology.................................................................... 203
    General Science.................................................... 209
    Chemistry........................................................... 210
    Mathematics....................................................... 215
    Physics.................................................................. 223
    Agriculture........................................................ 227

VIII. Division of Social Sciences......................................... 234
    History.................................................................... 237
    Economics........................................................... 241
    Geography.......................................................... 242
    Government......................................................... 243
    Sociology........................................................... 245
    Anthropology...................................................... 246

IX. Division of Religious Instruction.................................. 247

X. Division of Air Science, Air Force Reserve Training Corps... 249

Degrees Conferred............................................................. 252
    Regular Session, 1962-1963..................................... 252
    Summer Session, 1963.............................................. 252

Statistical Summary of Enrollment, 1962-1963........................ 252

Degrees Conferred in 1963.................................................. 253
    January 27, 1963.................................................... 253
    May 26, 1963.......................................................... 255
    August 24, 1963..................................................... 258

Alpha Chi Membership, 1963-1964....................................... 261

Index.................................................................................... 264
TERM SCHEDULE
1964-1965

First Semester ................................................. September 13-January 24
Second Semester .............................................. January 27-May 30
First Summer Half-Term ....................................... June 7-July 16
Second Summer Half-Term ..................................... July 19-August 27

<table>
<thead>
<tr>
<th>JANUARY</th>
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<th>MARCH</th>
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AIR FORCE ROTC

BASIC AND ADVANCED PHASES

AIR FORCE ROTC OFFERS ADVANTAGES

The basic phase of instruction in Air Force ROTC at Southwest Texas State College is designed to provide a foundation for development of leadership ability and acquaint the cadet with the responsibilities and functions of the Air Force in the aerospace age. Enrollment in the basic phase, the first two years, is open to any male student who meets the requirements of enrollment in the college and has at least two years of residence study remaining toward completion of a degree.

Advanced Air Force ROTC, the second two years of instruction plus four weeks of summer training at the end of the junior year, builds upon the foundations laid in the basic phase by further developing upper classmen who are under Air Force contract. Only male students who meet the requirements and are selected for an Air Force contract may enroll in advanced Air Force ROTC.

The Air Force ROTC Flight Instruction Program provides 36 hours of flight instruction for each Air Force ROTC senior who is a prospective military pilot. Successful graduates of this program may also qualify for a private pilot’s certificate.

Uniforms, air science textbooks and other Air Force ROTC training equipment are provided Air Force ROTC students without cost. Advanced students also receive an allowance of $27 a month.
SOUTHWEST TEXAS STATE COLLEGE

COLLEGE CALENDAR, 1964-1965

FALL SEMESTER

September 13, Sunday, 2:00 p.m.: Freshmen may enter dormitories.
September 14, Monday, 10:00 a.m.: General Faculty Meeting.
September 14-16, Monday-Wednesday Morning: Freshmen Orientation and Registration.
September 16-17, Wednesday Afternoon-Thursday: Registration of other students.
September 18, Friday: Classes begin.
September 19, Saturday: Registration of Saturday students.
November 2-21: Dates for filing applications for degrees to be conferred Sunday, January 24, 1965.
November 7, Saturday: Homecoming.
November 10, Tuesday: Mid-semester grades due.
November 26-29, Thursday-Sunday: Thanksgiving holidays.
December 22, Tuesday: Last day of classes before Christmas holidays.
January 4, Monday: Classes resume.
January 11-15, Monday-Friday: Dead Week.
January 22, Friday: Last final examination in the fall semester.
January 24, Sunday: Mid-Year Convocation and Graduating Exercises.

SPRING SEMESTER

January 27-28, Wednesday-Thursday: Registration.
January 29, Friday: Classes begin.
January 30, Saturday: Registration of Saturday students.
April 1, Thursday: Mid-semester grades due.
April 15-19, Thursday-Monday: Easter holidays.
May 14-20, Friday-Thursday: Dead Week.
May 27, Thursday: Last final examination in the spring semester.
May 30, Sunday: Baccalaureate Service, 11:00 a.m., and Graduating Exercises, 2:30 p.m.

SUMMER SESSION, 1965

First Term

June 7, Monday: Registration.
June 8, Tuesday: Classes begin.
June 14-26: Dates for filing applications for degrees to be conferred August 27, 1965.
July 16: First term closes.

Second Term

July 19, Monday: Registration.
July 20, Tuesday: Classes begin.
August 26, Thursday: Last final examination.
August 27, Friday: Baccalaureate Service and Graduating Exercises, 7:30 p.m.
Note: The first General Faculty Meeting of the 1965-66 year is scheduled for Monday, September 13, 10:00 a.m.
DIRECTIONS TO STUDENTS

1. Information and directions on any matter of detail about the college should be sought at the Registrar's office.

2. To avoid serious confusion, and possible loss of credits, students are urged to write their full names without variations on all cards and blanks of the college.

3. A student may not change his rooming or boarding place without consulting the appropriate Director of Housing.

4. Assemblies of students will be held periodically on special call.

5. If a student contemplates withdrawing from college, he should advise with the proper dean. If a student leaves without withdrawing in the regular way, he may expect "F's" in all courses.

6. All college property in possession of a student must be returned and all arrearages to the college including past due indebtedness to loan funds satisfactorily adjusted before the student is eligible for regular withdrawal, for readmission, for a transcript of credit, for certification, or for graduation. Moreover, continued failure to adjust such arrearage may make it necessary to deny a student the privilege of attending classes.

7. All breakage fees and fines must be paid before grades are released.

8. Students should watch bulletin boards for important notices.

9. Hazing is prohibited by law in state educational institutions. The law provides that: "Any student of any state educational institution of Texas who commits the offense of hazing shall be fined not less than $25 nor more than $250 or shall be confined not less than ten days nor more than three months, or both."
FEES AND EXPENSES

Estimated expenses for students attending Southwest Texas State College, exclusive of such variable items as clothing, etc., are tabulated below.

REGISTRATION FEES AND DEPOSITS

General Property Deposit. Each student is required to make a General Property Deposit of $10.00 which must remain with the college through his career here except as noted in "A" below. All charges for property losses or damages or breakages or violations of rules of the college must be settled promptly. However, any unpaid current charges will be deducted from the deposit before a refund is made.

A. Refund of General Property Deposit. The General Property Deposit less charges will be returned to the student at the end of his career as a student provided, however, that any General Property Deposit which remains without call for refund for a period of four years from the date of last attendance at this college shall be forfeited and the deposit become a part of and operative to the permanent use and purpose of the College Student Deposit Fund.

REQUIRED REGISTRATION FEES FOR EACH SEMESTER

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
</tr>
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<tbody>
<tr>
<td>Student Service Fee</td>
<td>$25.00</td>
</tr>
<tr>
<td>Tuition (For resident of Texas)</td>
<td>50.00</td>
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<tr>
<td>Building Use Fee</td>
<td>10.00</td>
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<tr>
<td></td>
<td><strong>$85.00</strong></td>
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</table>

Estimated cost of textbooks and supplies ...........................................$40.00 to $50.00

Tuition Fee for non-Residents: Pursuant to provisions of House Bill 265, enacted by the 55th Legislature of Texas, tuition fees for students who are not residents of Texas have been established as follows:

1. For each semester $200.00

2. For a summer term of six weeks the fee shall be $100.00 or $200.00 for the 12 weeks session.

The college reserves the right to change fees in keeping with the acts of the Texas State Legislature.

Payment of Fees. All fees and deposits are payable at the time of registration, and a student is not registered until his fees are paid. Payment may be made in check or money order payable to Southwest Texas State College. If checks or drafts are returned unpaid for any reason other than the admitted error of the bank, the student must pay in cash immediately. Students whose checks have been dishonored may be required to pay in cash thereafter.
The payment of these fees entitles the student to admission to classes in accordance with the provisions of this catalog, admission to auditorium and athletic attractions, subscription to the "College Star," use of the Student Center facilities, health services, Sewell Park facilities, and partial purchase of the "Pedagog." These fees also help provide funds for the Student Senate, Band, A Cappella Choir, Dramatics, Debate, and other student activities.

**Auditing Fee:** Where auditing of courses is permitted, a tuition fee of $5.00 for each three semester hours or fraction thereof will be charged. All other fees will be the same as if the courses were taken for credit.

**Extension and Correspondence Instruction:** Pursuant to the action taken by the Board of Regents, the fee for extension and correspondence instruction is $12.00 per semester hour, payable in advance. There is an examination fee of $2.00 for each correspondence course. The audit fee for Extension Courses is $6.00 per semester hour.

**Fee for Late Registration:** A late registration fee of $3.00 will be charged all undergraduate students who register after the first class day of any semester or of either term of a summer session, provided that the Registrar may waive such fee if the late registration was dictated by circumstances deemed by him to be beyond the student's control.

**Fee for Schedule Change:** A fee of $1.00 will be charged for each change in the schedule of an undergraduate student after that schedule has been filed, except when such change is dictated by circumstances deemed by the Registrar to be beyond the student's control.

**FEES FOR SPECIAL COURSES**

(In addition to registration fees)

- **Piano, organ, voice, band or orchestral instruments:**
  - Two (one-half hour) lessons per week .......................... $35.00 per semester
  - One (one-half hour) lesson per week .................................. 18.00 per semester
  - Music Practice Fee ................................................................. 2.00 per semester
  - For non-Music major or minor, applied music fee
    - (class lessons) ................................................................. 8.00 per semester

- **Scattered Practice Teaching, Education 4383 or 4384**
  - (payable in full upon initial registration) .......................... 50.00 per long session

- **Internship Practicum, Education 5388**
  - (payable in full upon initial registration) .......................... 50.00 per long session

- **Laboratory Fees:**
  - Agriculture 2473, 3311, 5373 .............................................. 2.00 each per semester
  - Art 1227, 2359, 2363, 3327, 3329, 4363 .......................... 3.00 each per semester
  - Biology (All courses except 3305 and 4301) ......................... 2.00 each per semester
  - Chemistry (All courses except 3320, 4315, 5310, 5320 (not incl. breakage) ) ....... 2.00 each per semester
  - Education 4302, 4303, 4331, 4332, 5305, 5325, 5336, 5357 ............ 2.00 each per semester
### EXPENSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Fee</th>
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<tbody>
<tr>
<td>General Science 3310, 3320, 4309</td>
<td>$2.00 per semester</td>
</tr>
<tr>
<td>Home Economics 1330, 2332, 3326, 3335</td>
<td>$2.00 per semester</td>
</tr>
<tr>
<td>Industrial Arts 1320, 1330, 1350, 2320, 2330, 2331, 2365, 2370, 3320, 3330, 3350, 3365, 3370, 3380, 3386, 4330, 4366, 4383</td>
<td>$6.00 per semester</td>
</tr>
<tr>
<td>Physical Education Activities for Women</td>
<td>$2.00 per semester</td>
</tr>
<tr>
<td>All courses numbered below 1200 except 1102(b); 3226, 3227, 3322</td>
<td>$2.00 per semester</td>
</tr>
</tbody>
</table>

Certificate (payable when applying for cert.) ................................ $1.00-3.00

Diploma Fee (payable when applying for degree) ................................ 5.00

**Refund of Fees.** Any student who has paid his registration fees and officially withdraws by submitting a withdrawal card and registration receipt to the Cashier in the Office of Business Management during the first two weeks after the regular registration date is entitled to a refund of 80 per cent of his tuition and fees; during the third week, 60 per cent; during the fourth week, 40 per cent; during the fifth week, 20 per cent; and thereafter, no refund. No refunds will be made where the amount is less than $1.00. An immediate refund will not be made at the time a student withdraws during a semester, but upon request a check covering all refunds due will be mailed within approximately 30 days to the address left in the Office of Business Management.

Should a student reduce his semester hours registration sufficiently to be entitled to a refund, the same time and percentage schedule will apply.

In the summer session any student withdrawing officially, and submitting a withdrawal card and registration receipt to the Office of Business Management, during the first week after registration day will receive a refund of 65% of his tuition and fees; during the second week, 30%, and thereafter, no refund.

No refund of tuition and fees will be made in cases where students are requested to withdraw.

**The College Lair.** The college store, known as the Lair, is a service center on the campus for students and faculty where textbooks and school supplies are sold. A coffee bar and soda fountain make this a popular meeting place. All prices are maintained at the lowest level consistent with business practice.

**Suggested Methods for the Payment of Fees.** If a student expects to pay his fees by check, money order or any form other than cash, the checks should be payable to Southwest Texas State College. All students registering at this college for the first time, and any other students who do not have General Property Deposits on file with the college, should have one check to cover this $10.00 deposit. A second check should be in an amount sufficient to cover the total of the Student Service Fees, Building Use Fees, Tuition and Laboratory Fees. There should be a third check for the room and board payment. All students should have a fourth check sufficiently large to cover the cost of books and supplies.
## Room and Board

<table>
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<th>Dormitories for Women</th>
<th>Per Installment (2 per semester)</th>
<th>Per Semester</th>
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<tbody>
<tr>
<td></td>
<td>Amount</td>
<td>State Tax on Meals</td>
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<tr>
<td>Beretta Hall (Freshman)</td>
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<tr>
<td>Brogdon Hall (Freshman)</td>
<td>141.18</td>
<td>1.82</td>
</tr>
<tr>
<td>Commons Hall (Upperclass)</td>
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<tr>
<td>Lantana Hall* (Upperclass)</td>
<td>155.18</td>
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<tr>
<td>Laurel Hall* (Upperclass)</td>
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<tr>
<td>Retama Hall* (Freshman)</td>
<td>155.18</td>
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<tr>
<td>Sayers Hall** (Upperclass)</td>
<td>141.18</td>
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<tr>
<td>Speck Hall</td>
<td>141.18</td>
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<th>Cooperative Houses for Women: (All Classifications)</th>
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<tr>
<td>Burleson Hall</td>
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<td>Hornsby Hall</td>
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<th>Dormitories for Men:</th>
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<tr>
<td>Arnold Hall* (Upperclass)</td>
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<tr>
<td>Elliott Hall* (Freshman)</td>
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<tr>
<td>Harris Hall (Freshman)</td>
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<tr>
<td>Harris Hall Annex* (Freshman)</td>
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<tr>
<td>Smith Hall* (Upperclass)</td>
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<tr>
<td>Thomas Hall* (Upperclass)</td>
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All room and board prices are computed on the basis of multiple occupancy of rooms. If a student requests and is permitted to have a private room, or two students are permitted to occupy a three-student capacity room, the room rental charges will be increased $32.00 per installment for air conditioned rooms and $25.00 per installment for other rooms.

Room and board are computed on the semester basis and may be paid by the semester or in two equal installments, as follow: For the fall semester, the first payment is due and payable on or before the date of registration, and the other payment is due and payable on or before November 10.

---

*Air Conditioned.

**Freshmen may be assigned after other freshman halls are filled.
For the spring semester the first payment is due and payable on or before the date of registration and the other payment is due and payable on or before March 20.

Students not residing in college dormitories may secure board at the College Dining Hall at the rate of $186.00 per semester, or $93.00 per installment, including State Sales Tax, in accordance with the schedule indicated above, or they may purchase single meals from the college cafeteria.

Because of the changing food prices, the college reserves the right to increase or decrease the prices listed in this catalog.

The evening meal is not served in the college cafeteria on Sundays.

All residence halls will be closed during the Thanksgiving, Christmas and Easter holidays, as well as between semesters, provided that the college may choose to keep the residence halls open in case the intermission is too short to justify closing.

Note: Students who receive special permission from the Personnel Office to arrive at the college prior to the time they are expected to be here may secure their rooms at the rate of $1.50 per day and may purchase their food in the college cafeteria or elsewhere.

Refunds: Any student who withdraws officially from the college or who is granted permission to live off the campus may receive a refund of the unexpired portion of the room and board payment for the current installment period, reduced by the amount of $5.00, provided that no refunds shall be made in cases where students withdraw from the college or are permitted to live off the campus within ten days of the end of the current installment period. The refund will be computed from the date the approved withdrawal card, the meal ticket, and the student's room and board receipt are presented to the Cashier in the Office of Business Management. All payments made for room and board beyond the current installment period may be refunded 100% upon official withdrawal and request.

Room and board charges will continue until the student has officially moved from the college dormitory and cleared with the Office of the Director of Student Housing, and the Office of Business Management. Any arrearages must be settled in accordance with this refund policy.

Any refund due will be mailed within approximately 30 days to the address left with the Office of Business Management.

APPLYING FOR STUDENT HOUSING

Address all applications for dormitory reservations to the Director of Housing. A room deposit of $50.00 is required. Because of the critical housing shortage, applications are accepted up to 15 months in advance of the expected entry date. NOTE: For more thorough information, see the "Student Housing" section under "Student Personnel Services."
Apartments for Married Students: The following facilities are available at the prices indicated to students who carry a minimum of 12 semester hours of courses per semester, or four semester hours of courses per summer term. Students who are not enrolled for the minimum number of semester hours of courses will be required to pay slightly higher monthly rates.

RIVERSIDE HOMES

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<th>Monthly Rates</th>
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<tr>
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<td>Unfurnished</td>
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<tr>
<td>1 bedroom apartments</td>
<td>$22.50</td>
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<tr>
<td>2 bedroom apartments</td>
<td>27.50</td>
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<tr>
<td>3 bedroom apartments</td>
<td>27.50</td>
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RIVERSIDE APARTMENTS

Unfurnished except for refrigerator and range. Monthly rate: $55.00
Furnished. Monthly rate: $65.00

The monthly rates for Riverside Homes and Riverside Apartments include the furnishing of usual utilities. If air conditioners or window fans are installed by students, with consent of the Manager, additional monthly charges for utilities will be required. Address all applications to the Manager, Riverside Homes and Apartments, San Marcos Texas. NOTE: For more thorough information, see the "Student Housing" section under "Student Personnel Services."

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1963-1964

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*Effective September 1, 1964
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Wendell Hethcock, B.S. ................................. Head Resident of Thomas Hall
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B.S., East Texas State College; M.A., Southwest Texas State College;
Ed.D., Northwestern University, Illinois.
*Charles Ronald Willms, Assistant Professor of Chemistry.
B.A., The University of Texas; M.A., Southwest Texas State College;
Ph.D., Agricultural and Mechanical University of Texas.
Joe H. Wilson, Professor of Education and Dean of the College.
B.A., Baylor University; M.A., Brown University, Rhode Island; Ph.D.
The University of Texas
Wilton Leland Wilson, Assistant Professor of Business Administration and
Assistant Registrar.
B.B.A., M.S., Texas College of Arts and Industries.
Billy Lee Windham, Instructor in Industrial Arts.
B.S. in Ed., M.A., Southwest Texas State College.
Billy Joe Yager, Assistant Professor of Chemistry.
B.S., Southwest Texas State College; M.A., Ph.D., Agricultural and
Mechanical University of Texas.
John Andrew Yarchuska, Instructor in Industrial Arts.
Ramsey Yelvington, Instructor in Speech.
B.A., M.A., Baylor University.
Ione Dodson Young, Associate Professor of English.
B.A., Texas Technological College; M.A., Ph.D., The University of
Texas.
Leroy James Young, Professor of Agriculture.
B.S., M.S., Ph.D., Agricultural and Mechanical University of Texas.
Willard C. Young, Instructor in Biology.
B.S., M.A., The University of Texas.
Empress Young Zedler, Professor of Special Education and Director of the
Speech and Hearing Clinic.
B.A., M.A., Ph.D., The University of Texas.

*On Leave 1963-1964
GRADUATE ASSISTANTS

Amelia I. Beck, Graduate Assistant in English.
   B.A., Southwest Texas State College.
Michael G. Bordelon, Graduate Assistant in Mathematics.
   B.A., Southwest Texas State College.
Beatrice W. Brotzman, Graduate Assistant in Biology.
   B.A., The University of Texas.
Clemence R. Graef, Graduate Assistant in Physics.
   B.S., Southwest Texas State College.
Garland Jack Gravitt, Graduate Assistant in English.
   B.A., Baylor University.
Francis Lynn Harrell, Graduate Assistant in Chemistry.
   B.S. in Ed., Southwest Texas State College.
Joyce E. Hughes, Graduate Assistant in Music.
   B.M.Ed., Southwest Texas State College.
Richard V. Lehmberg, Graduate Assistant in Chemistry.
   B.S., Southwest Texas State College.
Clive A. Lynn, Graduate Assistant in Mathematics.
   B.S. in Ed., Southwest Texas State College.
Ancel D. Maddox, Graduate Assistant in Mathematics.
   B.S., Southwest Texas State College.
Nelwyn B. Moore, Graduate Assistant in Home Economics.
   B.S. in H.E., Southwest Texas State College.
Ronald Bruce Patschke, Graduate Assistant in Mathematics.
   B.S. in Ed., Southwest Texas State College.
Robert E. Patton, Graduate Assistant in Health and Physical Education for Men.
   B.S. in Ed., Southwest Texas State College.
Richard E. Powell, Graduate Assistant in Music.
   B.M., Combs College, Pennsylvania.
Kenneth A. Scheffler, Graduate Assistant in Business Administration.
   B.B.A., Southwest Texas State College.
Charles Neil Schroeder, Graduate Assistant in Mathematics.
   B.S. in Ed., Southwest Texas State College.
Michael Stoune, Graduate Assistant in Music.
   B.M., The University of Texas.
Clyde J. Townsend, Graduate Assistant in Mathematics.
   B.S., Southwest Texas State College.
Linda Selk Underwood, Graduate Assistant in English.
   B.A., Southwest Texas State College.
Horace E. Vickers, Graduate Assistant in Mathematics.
   B.S. in Ed., Southwest Texas State College.
RETIRED MEMBERS OF THE FACULTY

Mary Catherine Brogden, M.A., Dean of Women.
James Richmond Buckner, M.A., Professor of Spanish.
Helen Hornsby Crawford, B. Litt., Professor of German.
Verna Lee Deckert, M.A., Associate Professor of Art.
Howard M. Greene, M.A., Professor of History and Government.
Ruby Henderson, M.A., Assistant Professor of Education.
Carroll L. Key, Ph.D., Professor of Chemistry.
Georgiia Lazenby, M.A., Associate Professor of Art.
Retta Murphy, Ph.D., Professor of History.
Alfred Henry Nolle, Ph.D., LL.D., Dean of the College.
Hugh Aurelius Nelson, M.S., Professor of Agriculture.
Ruffus R. Rush, M.A., Professor of Physics.
Grace Berry Smith, B.S., Instructor in Biology.
Henry Eli Speck, M.A., Dean of Men.
Oscar W. Strahan, M.Ed., Professor of Physical Education.
David F. Votaw, Ed.D., Professor of Education.
Edward Orlando Wiley, Ph.D., Professor of Education.
THE COLLEGE LABORATORY SCHOOLS
San Marcos Public Schools

Officers of Administration

Joe C. Hutchinson, Associate Professor of Education and Superintendent of the College Laboratory Schools.
  B.S. in Ed., M.A., Texas Technological College.
Yancy P. Yarbrough, Associate Professor of Education and Principal of the College High School.
  B.S., Southwest Texas State College; M.A., The University of Texas.
Marvin L. Altenhoff, Principal of the College James Bowie Elementary School.
Bush N. Ewing, Principal of the College Campus Elementary School.
  B.S., M.S., East Texas State College.
James Farmer, Principal of the College Junior High School.
  B.A., M.A., Southwest Texas State College.
Jake G. Obenhaus, Principal of the College Southside Elementary School.
Sam Stovall, Principal of the College William B. Travis Elementary School.
  B.S., Abilene Christian College; M.Ed., Hardin-Simmons University.
Eugene B. Turner, Assistant Principal of the College High School.
  B.B.A., M.A., Southwest Texas State College.

Cooperating Teachers*

  B.S., M.Ed., Southwest Texas State College.
Martha Adams, Spanish and English, The College Junior High School.
  B.A., Southwest Texas State College.
Mildred Allen, Business Administration, The College High School.
  B.S., Texas Wesleyan College; M.A.; Texas Christian University.
Shirley Baldrige, Social Studies, The College Junior High School.
  B.S., East Texas State College; M.Ed., Southwest Texas State College.
  B.A., Mary Hardin-Baylor College; M.Ed., Southwest Texas State College.
Vivian Breeding, Special Education, The College Junior High School.
Helen Bright, The College James Bowie Elementary School.
  B.S., M.Ed., Southwest Texas State College.

*Teachers who supervise laboratory school experiences such as student teaching, observations and internships.
Lucile Cates, English and Social Studies, The College Junior High School.
  B.S. in Ed., Texas College of Arts and Industries.
Mary Turner Collier, The College Campus Elementary School.
  B.S., Howard Payne College; M.Ed., Southwest Texas State College.
Lou Creekmore, R.N., School Nurse for the College Laboratory Schools.
Raymond Czchos, Mathematics, The College Senior High School.
  B.A., Baylor University.
  B.S. in Ed., Southwest Texas State College.
  B.S. in Ed., Southwest Texas State College.
Volna Lee Daum, Mathematics, The College Junior High School.
  B.A., Central State College, Oklahoma.
  B.S., Southwest Texas State College.
  B.S., M.Ed., Southwest Texas State College.
  B.S., M.Ed., Southwest Texas State College.
Loise Dollahite, Social Studies, The College Junior High School.
Dora Dowden, The College William B. Travis Elementary School.
  B.S., M.A., Southwest Texas State College.
  B.A., Southwest Texas State College.
  B.S. in Ed., Southwest Texas State College.
Ruth J. Erickson, Spanish and French, The College High School.
  B.A., M.A., Texas Christian University.
Claude Evans, Physical Education, The College Elementary Schools.
  B.S., M.A., Southwest Texas State College.
  B.S., M.A., Southwest Texas State College.
Mildred Farmer, The College Campus Elementary School.
  B.S., Southwest Texas State College.
Lois I. Fitzgerald, The College Campus Elementary School.
  B.S., M.Ed., Southwest Texas State College.
  B.S. in Ed., Southwest Texas State College.
Katherine F. Ford, The College Southside Elementary School.
  B.S., M.Ed., Southwest Texas State College.
  B.S., M.A., Southwest Texas State College.
Erin Kay Fox, English, The College High School.
B.S. in Ed., Southwest Texas State College.

Elinor C. Frank, Music, The College Elementary Schools.

B.S., M.Ed., Southwest Texas State College.

Mary G. Gafford, English and Spanish, The College High School.
B.A., Southwest Texas State College.

B.S., Daniel Baker College, Brownwood; M.A., Hardin-Simmons University.

Nora Gensberg, The College Campus Elementary School.

B.S., M.A., Southwest Texas State College.

Cleo M. Gill, English and Social Studies, The College Junior High School.
B.S., M.A., Southwest Texas State College.

B.S., Hardin-Simmons University; M.E., University of Houston.

James F. Goodwin, Band and Orchestra, The College Junior High School.
B.M., St. Mary's University of San Antonio.

B.S. in Ed., Southwest Texas State College.

Louie P. Gregg, The College Campus Elementary School.
B.S., East Texas State College; M.A., Southwest Texas State College.


B.S., M.Ed., Southwest Texas State College.

Margaret P. Hahn, English, The College High School.
B.S., Wisconsin State College.

Mary Haisler, The College Southside Elementary School.
B.S., M.A., Southwest Texas State College.

Donna Haynes, The College Southside Elementary School.
B.S., M.Ed., Southwest Texas State College.

B.S. in Ed., Southwest Texas State College.

B.A., M.A., Southwest Texas State College.

B.A., M.A., Southwest Texas State College.

Margaret Hoch, The College James Bowie Elementary School.
B.S., Southwest Texas State College.

B.S., M.A., Southwest Texas State College.
B.S. in Ed., Southwest Texas State College.
Francys M. Houston, Counselor, The College High School.
B.A., Texas Christian University; M.A., Southwest Texas State College.
B.S. in Ed., Southwest Texas State College.
B.S., M.A., Southwest Texas State College.
Roena Hughson, The College Campus Elementary School.
Patricia Hugland, Homemaking, The College High School.
B.S. in H.E., Southwest Texas State College.
Mary Hutchinson, The College William B. Travis Elementary School.
B.S. in Ed., Texas Technological College; M.Ed., Southwest Texas State College.
B.S. in Ed., Southwest Texas State College.
Mary Audrey Jackson, The College James Bowie Elementary School.
B.S., East Texas State College; M.A., Southwest Texas State College.
Enid G. Jennings, Librarian, The College Junior High School.
B.A., Howard Payne; M.A., Southwest Texas State College.
B.S. in I.A., North Texas State University.
B.S., M.A., Texas Women's University.
Earnestine Kaase, Special Education, The College Campus Elementary School.
B.A., Mary Hardin-Baylor; M.Ed., Southwest Texas State College.
Valarie Klossner, Typing and Mathematics, The College High School.
B.B.A., Southwest Texas State College.
B.S. in Ed., Southwest Texas State College.
B.S. in Ed., M.S., Southwest Texas State College.
B.S., M.Ed., Southwest Texas State College.
Nell Linebarger, The College Campus Elementary School.
B.S. in Ed., Southwest Texas State College.
Leland Lundgren, Music, The College High School.
Edwin S. Lyon, Band, The College High School.
B.M.Ed., M.A., Southwest Texas State College.
Dolores McDonald, The College William B. Travis Elementary School.
B.A., Southwest Texas State College.
B.S. in Ed., Southwest Texas State College.
A. S. Mahan, Business Manager of the College Laboratory Schools.  
B.B.A., Southwest Texas State College.


Martha Jane Mauldin, Librarian, The College Elementary Schools.  
B.S., Southwest Texas State College.

B.S., M.A., Southwest Texas State College.

LaRue H. Miller, Special Education, The College James Bowie Elementary School.  
B.S. in Ed., Southwest Texas State College.

B.S., M.A., Southwest Texas State College.

B.S. in Ed., Southwest Texas State College.

Frank E. Mooney, Industrial Arts, The College Junior High School.  

B.A., M.A., Southwest Texas State College.

Bernice Musgrave, The College Campus Elementary School.  
B.A., North Texas State University; M.A., Southwest Texas State College.

Frank Neffendorf, Jr., Mathematics and Science, The College Junior High School.  
B.S. in Ed., Southwest Texas State College.

B.S. in Ed., Southwest Texas State College.

B.S. in Ed., Southwest Texas State College.

Petra Nicola, The College Southside Elementary School.  
B.A., M.A., Southwest Texas State College.

Beverly Owen, Homemaking, The College High School.  
B.S. in H.E., Southwest Texas State College.

Martha Philo, Special Education, The College High School.  
B.A., Southwest Texas State College.

B.S., M.A., Southwest Texas State College.

B.S., Southwest Texas State College.

Inez Ramsay, The College Campus Elementary School.  

Joyce Barnett Reasoner, The College Campus Elementary School.  
B.S., M.A., Southwest Texas State College.

Rex Reddell, Industrial Cooperative Training, The College High School.  
B.S. in I.A., Southwest Texas State College.

Ethel Newport Reed, Mathematics, The College Junior High School.  
B.S., Southwest Texas State College; M.A., Colorado State College.
   B.S., M.Ed., Southwest Texas State College.
   B.S. in Ed., Southwest Texas State College.
Stephanie Saunders, Art, The College High School.
   B.F.A., University of Alabama.
Leroy Schneider, Science, The College High School.
   B.S., M.Ed., Southwest Texas State College.
   B.S. in Ed., Southwest Texas State College.
   B.S., M.Ed., Southwest Texas State College.
Alberta Smith, English, The College High School.
   B.A., Southwest Texas State College.
Oscar Smith, English, The College Junior High School.
   B.A., Southwest Texas State College.
   B.S. in Ed., Southwest Texas State College.
Bonnie A. Smith, Speech Therapist, The College Laboratory Schools.
   B.S. in Ed., Southwest Texas State College.
   B.S., M.A., Southwest Texas State College.
Betty Starling, English and History, The College High School.
   B.A., Harding College, Arkansas.
Wilma Stone, The College Campus Elementary School.
Mildred Stokes, Special Education, The College Campus Elementary School.
   B.A., Florida State University.
Bob Thomas, Coordinator of Special Education, The College Elementary Schools.
   B.A., M.A., The University of Texas.
   B.S., M.A., Southwest Texas State College.
   B.A., Southwest Texas State College.
Lucile Tramel, The College Southside Elementary School.
   B.S., M.A., Southwest Texas State College.
Dorothy N. Turner, The College Campus Elementary School.
Eleanor B. Tuttle, Mathematics, The College Junior High School.
   B.S. in Ed., Southwest Texas State College.
Madeline West, The College Campus Elementary School.
   B.S. in Ed., Southwest Texas State College.
  B.S., M.Ed., Southwest Texas State College.
  B.A., M.A., Southwest Texas State College.
Mina Williams, The College Campus Elementary School.
  B.A., The University of Texas; M.A., Southwest Texas State College.
Patricia S. Williams, Special Education, The College William B. Travis Elementary School.
  B.S. in Ed., Southwest Texas State College.
  B.S., M.A., Sam Houston State College.
  B.S., M.A., Southwest Texas State College.
  B.S., Southwest Texas State College; M.S., Agricultural and Mechanical University of Texas.
  B.S., Southwest Texas State College.
  B.S. in Ed., Southwest Texas State College.
Thomas Yoakum, History and Civics, The College High School.
  B.S., M.A., Southwest Texas State College.
Elizabeth Young, Language Arts, The College Junior High School.
  B.A., East Texas State College.
Lorraine M. Younger, Librarian, The College High School.
  B.A., M.A., Southwest Texas State College.
  B.A., Howard Payne College; M.Ed., Southwest Texas State College.
THE COLLEGE

HISTORY

The Southwest Texas State Normal School, established by the Twenty-Sixth Legislature in 1899, opened its first regular session in the fall of 1903. T. G. Harris, formerly superintendent of Austin schools, was the first president, having been elected by the State Board of Education. He served until 1911, when he was succeeded by Dr. C. E. Evans, school administrator and educational campaign worker.

Dr. Evans, after 31 years of continuous service as president, retired as president-emeritus September 1, 1942, when he was succeeded by Dr. J. G. Flowers, president of the State Teachers College, Lock Haven, Pennsylvania, former student of Southwest Texas State College, graduate of the East Texas State College, and some time director of teacher training in that institution.

A local board of three trustees appointed by and under the direction of the State Board of Education was originally responsible for the management of the school. The board was replaced in 1911 by the Board of Normal Regents which was created by the Thirty-Second Legislature and which was given complete control over the normal schools of Texas. Board personnel and length of tenure were standardized when the Forty-First Legislature in 1929 enacted a law setting the number of regents at nine and providing for the appointment of three members each biennial period.

The Thirty-Eighth Legislature in 1923 changed the name of the school from the Southwest Texas State Normal School to the Southwest Texas State Teachers College.

The Fifty-Sixth Legislature in 1959 in turn changed the name to Southwest Texas State College, effective September 1, 1959.

ACCREDITATION

Credits earned at Southwest Texas State College are accepted by other institutions of higher learning throughout the nation. The college is a member of the Association of Texas Colleges and Universities, the Southern Association of Colleges and Schools, the National Commission on Accrediting, the National Association for Accreditation of Teacher Education and the American Association of University Women.

LOCATION

Southwest Texas State College is strategically located for service to the great Southwest and Central Texas. Built on College Heights in San Marcos, picturesque city of 14,000, the college is but 50 miles from San Antonio, the metropolis of Southwest Texas, and 30 miles south of Austin, the state capital.
San Marcos is situated on the main line of the Missouri, Kansas & Texas and Missouri-Pacific railways and intersected by strategic state and federal highways, making the college conveniently accessible to a large service area. Over 2.5 million Texas citizens reside within 150 miles of the school.

Recognized as an outstanding educational center, San Marcos has an excellent system of public schools and a well-organized denominational school—the San Marcos Academy—in addition to the college. The moral and religious atmosphere of the city is wholesome.

COLLEGE PLANT

Campus buildings and equipment of the college are valued at more than 14 million dollars. Of this amount, approximately 11.5 are in buildings; two million in equipment, and $750,000 in campus and lands.

In addition to the 65 acres comprising the campus property, the college has title to 443 acres of farm and ranch land and also to Sewell Park, a recreation park which measures several acres along the banks of the San Marcos River, and to a 125 acre campsite located on the Blanco River in the Wimberley hills.

There are approximately 100 buildings on the college property. These may be classified into the following groups:

(1) **Instructional Buildings**

Main Building  
Science Building  
Language-Arts Building  
Industrial Arts Building  
Educational Building  
Allie Evans Cottage  
Evans Auditorium-Laboratory School  
Library Building

Men's Gymnasium  
Lula Hines (Women's) Gymnasium  
Fine Arts Building  
Student Center  
Agriculture Farm  
Shop Building  
Air Science Building  
Art Building

(2) **Residence Halls and Apartments**

Sixty-one buildings on the campus provide residence facilities for men and women students. These facilities include residence halls for women, cooperative residences for women, residence halls for men and approximately 125 furnished and unfurnished apartments for married students.

(3) **Miscellaneous Buildings**

In addition to the instructional buildings, dormitories and apartments listed, the college plant includes 31 buildings inclusive of the president's home, the infirmary, power plant, the athletic field house, the bath house, and the commons.
THE LIBRARY

The library is an educational agency with the primary objective of supporting the institution's teaching and research programs. Through the cooperation of faculty and library staff, a wide selection of authoritative books and periodicals is provided. As a partial depository, many useful government documents are available. The library contains more than 124,000 books and 665 periodicals, most of which are available on open shelves.

Two special collections add to the research value of the library: (1) The Daughters of the American Revolution Library contains more than 3,000 early textbooks, (2) The Elliott Collection contains more than 500 rare books and pamphlets on Texas and Western history, and also the Dienst and Harwood manuscript collections.

The first floor and mezzanine of the air-conditioned library contain a foyer and four large reading rooms which will accommodate 720 readers. Carrels, typing rooms, and equipment are provided for the use of students and faculty.

THE MUSEUM OF ART AND HISTORY

The college museum assumes an important role in the educational program of the college. Materials are classified and arranged in meaningful displays which are of great value to grade school, high school and college students who are interested in Texas history, Texana in general, Texas natural history, and Texas costumes and household articles of the pioneer period.

Each year the museum brings in a number of exhibits which have proved to be of considerable interest to local students of all ages. Art and dress that reflect the cultures of different countries, a conchological display, and a lapidary collection were among the recent exhibits that attracted a large number of visitors.

Occupying the second floor of the language arts building, the museum has arranged its large resources in a way that will best serve the need of the college and the local schools.

HUNTINGTON STATUE

The college is the recipient of the "Fighting Stallions" by Anna Hyat-Huntington, a magnificent piece of statuary by the famous sculptor. The statue was placed in February, 1952, and appropriate landscaping surrounding the statue has been completed. The generosity of the Huntington family and the gift of many friends who were responsible for the erection of the base and surroundings made the college year 1951 memorable since it was in that year the Golden Jubilee of the college was celebrated.
LABORATORY SCHOOL

The Public Schools of San Marcos are utilized as the Laboratory School of the college, according to an arrangement entered into in 1933 by formal contract between the San Marcos City Schools and the college. Directed teaching at the elementary level is carried on in the four city elementary schools: Campus Elementary School, which has an enrollment of 444 pupils and 18 teachers and is housed in the Auditorium-Laboratory School Building; Southside Elementary School, which has an enrollment of 200 pupils and 7 teachers; James Bowie Elementary School, which has an enrollment of 643 pupils and 25 teachers; William B. Travis Elementary School which has an enrollment of 503 pupils and 20 teachers. Directed teaching at the junior high school level is carried on in the Junior High School, housed in the City Junior High School Building with an enrollment of 571 pupils and 22 teachers. At the senior high school level, directed teaching is carried on in the City High School, with 922 pupils and 44 teachers.

In the teacher training program of the college, the supervisory staff consists of the Director of Teacher Training, a Director of Student Teaching on the elementary and on the secondary level, the City Superintendent, the Principal of the High School, the Principal of the Junior High School, the principals of the elementary schools, and the public school teachers. Some responsibility for the supervision of the work of student teachers is assumed by the members of the staffs of the various college departments. The student teachers are under the immediate direction of the classroom teachers to whom they are assigned by the Director of Student Teaching.

In addition to the cooperative arrangement between the public schools in San Marcos and the college, agreements have also been reached with various neighboring school systems whereby student teaching is carried on in those systems. Student teachers who are assigned to the neighboring school systems spend 9 weeks or a half semester in residence in the communities to which they are assigned to work under the joint supervision of the staff of the school to which they are assigned and supervisors from the college, who visit them periodically.

Student teachers preparing for certification in one of the various areas of special education may obtain student teaching and/or the internship-practicum in the medical setting of Texas Rehabilitation Foundation at nearby Gonzales Warm Springs. Such experiences will be under the supervision of the foundation's medical staff and this college's coordinator of special education.
THE EX-STUDENTS ASSOCIATION

This organization is known as The Ex-Students Association of Southwest Texas State College. All persons who have been enrolled in any of the regular college courses and who have been honorably dismissed or graduated are automatically members. To date there are more than 84,000 ex-students. Of these 11,282 have been awarded the bachelor's degree and 2,715 the master's degree.

The association seeks to promote fellowship among graduates and former students; to advance their professional interests; and to keep them in sympathetic touch with the interests, need, and activities of the school. The association also endeavors to keep an accurate catalog of the names, addresses and professional status of its members.

Plans have been projected for the formation of active county or branch organizations of former students at centers accessible to them within the service territory of the college. "SWT Hillviews," the voice of the Ex-Students Association, will be mailed to all known addresses six times a year.

The administration of the association is by elected officers, the Association Council comprised of representatives from every section of Texas and every class that has graduated from the school, and the Executive Board of the council. Association officials hold business meetings in the spring and fall of each year.

The association maintains a small loan fund which it makes available to students in small short-term loans, and has representation in the administering of the $25,000 fund provided by the late Will G. Hogg known as "The Ex-Students Memorial Loan Fund." Southwest Texas ex-students have joined some 20 other Texas college ex-students associations in a general drive known as "CLASP."

The Ex-Students Association has adopted a long-range Greater College Development Program through which it envisions a series of specific projects to improve the school. Notable contributions have been made to date toward the installation of a memorial organ, equipping the Student Center building, enlarging Evans Field and furnishing a small chapel to be constructed on the campus and establishing the Evans Memorial Student Loan Fund.

All former students contributing to the association's campaign for funds are known as "Contributing Members."

Elected to serve as officers of the association during the year 1964 were:

President ......................................................... Carlos Baker
First vice-president ............................................. Jerry Moore
Second vice-president ......................................... Brents Broyles
Executive secretary .......................................... Vance Winn
GENERAL PUBLIC SERVICES

The college is often called upon for certain extra services. Arrangements for such services and assistance may be made through the Department of Public Services. There are several activities which are often requested.

Judges. County fairs and exhibits ask for services of members of the agriculture, art, education, home economics, industrial arts, speech, and other departments.

Interscholastic league officials in town, district, and regional meets find great help here. Usually this college furnishes about 350 judges annually for this work alone.

Referees for athletic games, especially those connected with the interscholastic leagues, are in demand.

Consultants. Specialists on the faculty are available for assistance and guidance to those having need of their services. The college has much to offer in the field of educational testing, administration, in the sciences, physical fitness programs, home economics, music, and in many other fields.

Speakers. A list of available speakers with suggested topics may be had from the Public Services Office. The speakers are prepared to deliver baccalaureate and commencement addresses and to speak before study clubs, parent-teacher groups and divisional gatherings of the Texas State Teachers Association and at father-and-son, mother-and-daughter, and Chamber of Commerce banquets. Groups or organizations wishing to use the services of such faculty members are invited to address their requests for them to the Public Services Office.

Entertainers. Many talented students on the campus, as well as faculty members, are available for assistance in presenting programs. Small groups of such entertainers are especially suited for use at luncheons and banquets of organizations such as Kiwanis, Rotary, Lions and business men's clubs.

Costs. The college makes no charge for these services. It is assumed that minimum expenses will be furnished by those using the services of these faculty members and students as judges, speakers, and entertainers. Where special consultants are used, a reasonable fee is charged.

College News Services. A very important part of the Public Services Department is the division of College News Service. Its chief function is to interpret the college and its program to the public, which it endeavors to do through the various college publications, such as The College Star, through special bulletins which are released from time to time, and through occasional broadcasts.

Regular news releases are made to the daily papers in this part of Texas, covering all phases of college activities involving faculty and stu-
dents. Weekly releases to town and country papers carry items of local interest about the activities of students while here in college.

Journalism students are used as much as possible in this work and gain valuable experience through actually applying what they study in books.

PLACEMENT BUREAU

Scope. The principal activity of the Placement Bureau is to assist graduates and former students to secure good teaching positions and to assist superintendents to secure good teachers. This office is so administered that every prospective teacher has opportunities for employment in the public schools throughout Texas. Graduates are found teaching in every section of the state.

Also, this office has good contacts with business and industrial organizations which employ secretaries, chemists, counselors, recreation directors, dietitians, and other personnel. Each year many of the graduates of this college are placed in responsible non-teaching positions.

Complete records of those enrolled with the office will be available to prospective employers seeking employees through the government’s employment service. Ex-service men, as well as other former students, are invited to avail themselves of this service, which is without cost to them.

Policy. It is the policy of this bureau to recommend candidates on the basis of their training, character, ability, and experience. Every possible effort is put forth to obtain a complete and accurate picture of the student’s qualifications. The credentials of all who have the requirements for the vacancy are available to the prospective employer. It is then left to the employer to choose the employee he feels is best qualified for the vacancy. This is a service bureau both to the employer and to the employee.

Who May Enroll. Degree graduates are urged to enroll with the placement bureau. Undergraduates, who feel that they must drop out of school and work, may list their names with the bureau. For several years graduates have had practically 100 per cent placement and many undergraduates have received good positions.

Costs. No fee is charged for the service of this bureau either to the student or to the employer.

Vacancies. Each spring all superintendents in this area are asked to send a list of their vacancies to this college. Other employers are likewise asked for their needs. In normal years three times as many calls are received as there are candidates seeking positions. In 1963 there were seven or eight times as many calls for employees as there were candidates available.
Follow-Up. Each spring the bureau sends a follow-up questionnaire to the administrator relative to each teacher he employs through this bureau for that year. Each teacher is rated in terms of classroom efficiency, knowledge of subject matter, community worth, general appearance, cooperation with school officials, and extra-curricular activities. This becomes a part of his permanent record. Studies of these reports aid greatly in planning for more effective guidance for teachers in training.

To Obtain Services. Any person desiring the services of the Placement Bureau, either as an employer or as a prospective employee, should contact the Director of Public Services.

EXTENSION DIVISION

Philosophy. Realizing the desire and need of many teachers for opportunities for professional stimulation and advancement, the college has organized and maintains an extension division. This institution exists to serve the people of the state, and where citizens can not come to the college, it welcomes the opportunity to take education to the people. It offers extension credit courses both by direct class instruction and by correspondence study methods.

General Regulations. No student who is registered as a full-time student in this or any other institution may be registered for extension credit work without written permission from the Dean of the College. Moreover, a student enrolled for extension work as offered by this college, whether by direct class instruction or by correspondence, must notify the Dean of the College when he is taking correspondence, extension or residence work in any other college or university. Students are held individually responsible for any violation of this regulation.

A student who is gainfully employed may present for credit toward a certificate or degree not more than six hours of credit earned in extension or by correspondence during any one semester, provided that the maximum amount of work completed by correspondence and in extension centers applicable toward a baccalaureate degree shall be limited to 30 hours all told, of which not more than 18 hours may be completed by correspondence. Normally, no more than six semester hours of extension work may apply toward the master's degree, and no correspondence work is applicable.

Requirements of admission to extension work are the same as admission to residence work except that any student may be admitted to an extension class for work without credit.

Instructors. Regular members of the college faculty teach the extension courses. Usually, these teach the same courses by extension which they teach on the campus. This assures a definite sequence of instruction in a field of study to off-campus students.
DIRECT CLASS INSTRUCTION

Location of Centers. Courses are offered in any center where there is sufficient demand. In recent years classes have been taught in Columbus, Crystal City, Cuero, Pearsall, Pleasanton, Port Lavaca, Hallettsville, Yorktown, Yoakum, Floresville, Uvalde, and Victoria.

Courses Offered. Courses in English, history, business administration, education, mathematics, physical education, government, and sociology have been among those offered very satisfactorily in recent years. This division will offer any course found in the regular catalog if it is practicable to teach it by extension.

Fees. The fee for extension credit by direct class instruction work is $12.00 per semester hour payable in advance.

Credits. Classes by extension usually meet for two and one-half hours one night per week for 18 weeks. For such a course three semester hours credit may be earned. Grades are assigned the same for extension courses as for residence work.

To Enroll. Any student who wants to take a course by class extension should communicate directly with the Director of Extension.

CORRESPONDENCE INSTRUCTION

REGULATIONS

Correspondence courses taught by regular faculty members are available.

The following regulations are excerpted from the more detailed ones to be found in the correspondence bulletin obtainable from the Department of Extension.

1. Students may register and begin work at any time. Instructors are not expected to grade papers, however, between the close of the summer term and the opening of the fall term.

2. Each three-hour course should be completed in four and a half months, provided that such a course may not be completed in less than 45 days and must be completed within one year from the time the student registers for the course.

3. Each correspondence course for credit must be completed with a final written examination given under the supervision of a college-approved examiner at a college belonging to the Association of Texas Colleges.

4. Textbooks for correspondence courses must be furnished by the student. These may be obtained from the college book store on the campus.
Fees. The fee for correspondence credit is $12.00 per semester hour plus a small examination fee. The course fee is payable in advance. The examination fee is payable at the time the final examination is taken.

Credits. Most correspondence courses offered carry three semester hours of credit. They have the same prerequisites as required for equivalent on-campus courses.

To Enroll. Persons wishing to enroll for correspondence work as offered by the college should address a request for a copy of the correspondence bulletin and for application blanks to the Director of Extension, Southwest Texas State College, San Marcos, Texas, 78666.

THE SUMMER SESSION

The summer session of the college, divided into half-sessions of six weeks each, is an integral part of an all-year program of instruction so organized that a student may at that time begin or continue his work as an undergraduate or as a graduate student. By taking advantage of it, a capable student may accelerate his program toward graduation to the point of meeting the requirements for graduation with a bachelor's degree in three calendar years or a master's degree in two and one-half summer sessions.

The first half-session of the summer session, 1965, will open June 7 and close July 16; the second half-session opens July 19 and closes August 27. A full schedule of graduate and undergraduate work will be offered, including workshops in elementary, secondary, and special education.

Any place and time are appropriate for chess.
GENERAL PURPOSE OF THE COLLEGE

The Southwest Texas State College at San Marcos was founded by the Legislature in 1899 as an institution that would serve in the preparation of teachers for the public schools. During the early years of its history, its organization and plan was that of the normal school designed to prepare elementary teachers only. Before the coming of high schools, the level of preparation was that of senior high school work and two years of college; then, as the teachers college movement gained momentum and as high schools took their place in all of our communities, the need for an institution to give high school preparation disappeared; the college became a standard four-year institution preparing both elementary and secondary teachers and administrators. A graduate program leading to the master's degree was established June 1, 1936.

The undergraduate program of the college is largely teacher preparation; the graduate program is strictly teacher preparation. In its broader role of a general-purpose institution, however, the college has developed curricula to accommodate the increasing number of students who wish to pursue liberal-arts and pre-professional courses. In the past more than 95 per cent of those who graduated from the college were qualified to teach; now 80 per cent or less are so qualified. Thus, while the preparation of teachers continues to be a primary objective of the college, new emphasis has been given to those academic areas which contribute to general liberal education.

FUNDAMENTAL PRINCIPLES AND POLICIES

Having accepted as our responsibility the areas of instruction indicated above, it is believed that certain principles should control the organization of the college and should determine its major policies. The following eight principles serve as guides for the instructional and administrative staffs in policy making.

I. The college should have clearly defined objectives which should limit and control its offerings and activities.

Clearly defined objectives should govern the administrative organization, classroom instruction, curriculum offerings, extra-class activities, and personnel procedures. These objectives should be justified in terms of functional value, effectiveness, and economy, and those persons engaged in administrative work, classroom teaching, or sponsoring activities should be influenced by worthwhile goals.

II. In order that students may gain a unified body of knowledge, with breadth and depth of information, the ultimate goal, the curriculum, and extra-curriculum of the college should be progressive, sequential, and integrated.
Living in a changing world and with new demands made upon us from year to year, the staff is under obligation to revise and reorganize its program in terms of the changing needs of society. Sound scholarship should be characterized by breadth and depth of information and is the constant and impelling motive in the introduction of new materials. The staff responsible for the introduction of such materials will consider their value in terms of the needs and welfare of the student and of society. A Curriculum Committee composed of the Dean of the College and the heads of the various departments has the responsibility of curriculum adjustment and change.

III. In order that all students may possess a broad culture background in what is regarded as the basic areas of knowledge, a program has been established to assure that the requirements of academic foundations are met by all.

It is the belief of our administrative and teaching staffs that there should be basic courses required in such areas as the social sciences, the natural sciences, the humanities, communications, in health, and that some electives should be allowed in these required areas. With this thought in mind, an academic foundation's program has been established.

IV. The curriculum patterns for teacher education are so designed that the student attains competence in the knowledge, ideals, attitudes, and skills required by the profession of teaching.

By means of our organized curricula in the various fields of subject matter, and through professional courses enriched by observation and participation and eventually in a period of concentrated teaching known as student teaching, the prospective teacher gains competence and skill as a beginning teacher. In the laboratory school effort is made to facilitate the processes involved in the integration of theory and practice.

V. The teacher education division should be differentiated and expanded in accordance with the aims and organizations of the public schools served by the college.

In accordance with the above principle, the college at San Marcos provides for concentrated study or specialization in the following areas: kindergarten, primary, elementary, and secondary, with particular specialties in school administration and special education. A complete school system is available as a laboratory for observation, demonstration, and teaching in all of the areas of public school work excepting a few highly specialized areas of subject matter.

VI. The curricula in the liberal arts provide opportunities for broad cultural development.

For those students who do not wish to pursue professional or vocational courses, the college offers a varied program in the liberal arts with majors in such fields as literature, languages, sciences, mathematics, social
sciences, and fine arts. Students who are interested in preparing for graduate study are given assistance in planning programs to achieve this goal.

VII. Pre-professional curricula are carefully planned to afford the basic training required for admission to professional schools.

As the demand for pre-professional training has increased, the staff has maintained close contact with the professional schools in order to assist students to meet fully the requirements for admission to study in the fields of medicine, dentistry, law, engineering, and pharmacy. Students who complete their preparatory training at the college proceed regularly to the leading professional schools.

VIII. In order that the democratic way of life may be realized, the college, through its administrative, instructional, and personnel organizations, seek to exemplify this concept, in spirit and in act.

It is our belief that individuals learn the ideals of democracy by study and by practice. This means that the college atmosphere should be one of cordiality, friendliness, and cooperation. Faculty committees, student-faculty councils, and extra-class activities are so organized that the spirit of cooperation may have a chance of expression since in such an atmosphere democracy is most likely to succeed.

ADMINISTRATIVE ORGANIZATION

Administrative Council. The college is organized for administrative purposes into four divisions: instruction, personnel, business, and public services. These divisions are under the direction of the President of the college and the Administrative Council which is composed of the heads of various administrative divisions. The President, with the Administrative Council serving in an advisory capacity, formulates policies which have to do with the function organization of the college.

Instructional Division. The heads of the subject-matter departments and divisions are organized into an Instructional Council with the Dean of the College, the Dean of Graduate Studies, and the Registrar ex-officio members. This division is concerned with the development of curricula, courses of study, teaching materials, and instructional procedures.

Students who wish advise or help in matters having to do with curriculum, courses, registration, advanced standing, instructional procedure and extra-class activities will consult with the Dean of the College, the Registrar, the department heads and extra-class activities advisers. Students will consult with the registrar concerning all matters having to do with records, reports, credits, and schedules.

Business Administration. The Business Administration Division manages all financial matters and has direct control over and management of the college plant.
Public Services. This division is concerned with publications, professional and vocational placement of graduates, ex-students and alumni associations, and other activities in which the general public is concerned. A director of public services, serves as chairman of a committee charged with these responsibilities.

Student Personnel Division. In order to provide for the maximum physical, social, and spiritual development of each student, the college has established a Division of Student Personnel with which is lodged responsibility for coordinating the various services which are dedicated to such development of the student as a whole person. The activities of the division are administered cooperatively by the members of the personnel staff of the college; a group of faculty members who serve as freshmen counselors; and the department heads who serve as advisers to upper-classmen.

Religious emphasis speaker talks with students.
STUDENT PERSONNEL SERVICES AND OPPORTUNITIES

Single Student Housing

The main purpose of students attending Southwest Texas State College is to secure an education and to gain the maximum benefit from this experience. This educational objective, therefore, must take priority over all others. An integral and important part of this over-all educational plan is the Student Housing Program.

When you live in a college residence hall your concern for and cooperation in maintaining an atmosphere conducive to study—with special emphasis on quietness and respect for the rights of others—is of the greatest importance. Your cheerful cooperation in accepting this responsibility will make it possible for you and each other resident to achieve more closely the above educational objective.

If you will be living on campus for the first time when you come to Southwest Texas State College, you will find this part of your college life a new and exciting experience. You will meet men and women from other parts of the state, nation and world, and you will begin new friendships with these fellow students that will last for many years after college. You should find your horizons broadened in numerous beneficial ways, too, by the different customs and attitudes you will encounter.

Residence hall life, you will find, is definitely a life of give and take. As you become a part of this world, you should grow in achieving a greater understanding of people everywhere. You will be given a great deal of freedom. Along with this freedom, however, you will have the responsibility of doing your share in contributing to group living.

Counseling and Guidance

Every effort is made to create in each residence hall an atmosphere of friendliness and cooperation. This is done under the combined guidance of an outstanding personnel staff composed of a Dean of Students, the Associate Deans of Men and Women Students, the Head Residents, and, in the freshman halls, a large number of carefully selected, well-trained student counselors. Student counselors are particularly helpful in assisting freshmen students in becoming better adjusted to their new way of life on "The Hill."

Each hall is under the direct supervision and authority of a head resident. He or she is a mature, conscientious person of high integrity, and one who is thoroughly qualified to counsel and guide today's college students. The head residents help young men and women immeasurably in developing the high standards expected of an educated person in all areas of living: moral, social, spiritual, intellectual, economic, and citizenship.

To develop self-discipline, students are encouraged to form house councils and to govern themselves as long as they show responsibility and
effectiveness in doing so. House officers, elected by their fellow students, head their residence hall government and are responsible for carrying out effectively all approved residence hall activities decided upon by their housemates. Every effort is made to help each student grow in self-discipline, rather than to make him or her conform to superimposed regulations.

Applying For Student Housing

Please address all applications for rooms in college residence halls to the Director of Housing, Southwest Texas State College, San Marcos, Texas, 78666. Each new application must be accompanied by the housing deposit of $50.00. Please make check or money order payable for the exact amount of the deposit. (An application form is included in the back of this catalog.)

The housing deposit is both a reservation deposit and a deposit against damage. It must remain on file during a student's attendance and use of student housing facilities. When he has completed any semester at Southwest Texas State College and all obligations are met, the room deposit is refunded in full upon request. (See conditions of forfeiture outlined later in this section.)

Since the demand for single student housing is so great, you are urged to apply for a room up to 15 months in advance of your expected entry. It is not necessary to be admitted by the registrar before making a room application. The deposit is returned upon request if admission or registration is denied.

Please do not send payment for room and board to the director of housing. This is handled during registration by the Office of Business Management.

Cancelling a Room Reservation

If you decide to cancel a room reservation and expect to receive a deposit refund, or leave your deposit on file for a later reservation, your cancellation must be received in the Housing Office on or before the following deadline dates:

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>July 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring Semester</td>
<td>January 4</td>
</tr>
<tr>
<td>Summer Semester I</td>
<td>May 15</td>
</tr>
<tr>
<td>Summer Semester II</td>
<td>July 1</td>
</tr>
<tr>
<td>Workshops</td>
<td>One week prior to the first class session</td>
</tr>
</tbody>
</table>

Conditions of Forfeiture

Ways by which you will forfeit your housing deposit:

1. By cancelling a room reservation after any of the above deadline dates.
2. By both making and cancelling a reservation after any of the above deadline dates.
3. By checking out of any student housing facility during any semester, except when extenuating circumstances exist.
4. By leaving the deposit with the college and not using student housing facilities for a period of four years.

When the director of housing clearly determines that extenuating circumstances exist, he may waive any of these conditions of forfeiture and authorize refund of the deposit.

Facilities for Single Student Housing

Because campus living is so important in a student's life, Southwest Texas State College has made its residence halls as attractive and comfortable as possible. Lighting, furniture and arrangements are planned to make your home on "The Hill" a pleasant place to live as well as a good place to study.

Student rooms are adequately and attractively furnished. The furnishings include study desks and chairs, study lamps, single beds and mattress (39"), chests of drawers and/or dressers, mirrors, wastebaskets, and individual clothes closets.

For entertaining guests, as well as for student relaxation, each hall has its own spacious lounge, complete with at least one television set. Some have a piano in the lounge. Some of the dormitories also have recreation rooms, study rooms, and kitchenettes. Ample bathroom facilities are conveniently located on each floor of every dormitory.

So that students may do their own laundry, adequate facilities, including tubs, coin-operated washers and dryers, ironing boards, and irons, and some drying lines, are provided in each residence hall. Inexpensive and convenient college laundry service is available if one desires to use it. Also, local laundries and cleaners offer a pick-up and delivery service to all college dormitories.

Residence Halls for Women

Upperclass dormitories: These include Sayers, Commons, Laurel, and Lantana. Their capacities are 105, 42, 154, and 250, respectively. Lantana and Laurel are air-conditioned.

Freshmen dormitories: Beretta, Brogdon, and Retama Halls are currently used to house freshmen women. Their capacities are 124, 150, and 150, respectively. All rooms house two women. At the beginning of the fall semester a few of the larger rooms in Beretta, Brogdon, and Commons may house three girls temporarily. The third girl, however, will be moved to another room in the same dormitory or to another hall as soon as the expected vacancies occur.
Mixed dormitory: Speck Hall (previously used to house men) has been converted to a women's dormitory for 1964-65. It will house 196 women in non-air-conditioned, two-occupant rooms. After the regular dormitories are filled, both freshmen and upper-class transfer students will receive assignments to Speck.

A few rooms in Sayers and Hornsby accommodate three women. There is one single room in Sayers, and there are two in Beretta. All other rooms house two residents.

Cooperative dormitories: Girls with a flair for homemaking and a yen for thriftiness have an opportunity to fit both into their college career by taking advantage of cooperative hall living. This is provided in Burleson and Hornsby—housing 64 and 67, respectively. Both freshmen and upperclass women may apply for either of these halls. Located on the very tip-top of the hill, both halls command a magnificent view of the campus.

The girls here work in groups, planning, preparing, and serving their own meals, and performing other routine duties necessary to the efficient operation of their dormitories. Each girl takes pride in being part of the over-all picture, thus maintaining a sense of responsibility and high living standards.

Because her duties are comparatively light, she has ample time to participate in extra-curricular activities, social clubs, church work, sports, etc., and still graduate with a fine academic record. So the advantages of cooperative hall living are obvious.

Note: A new 250-girl, air-conditioned dormitory is expected to be ready for occupancy in September of 1965. At this time, however, it has not been determined whether it will house freshmen or upperclass women nor has it been named.

Residence Halls for Men

Upperclass dormitories: Three air-conditioned dormitories of Smith, Arnold, and Thomas compose the regular student housing facilities for upperclass men. The athletic dormitory houses both freshmen and upperclassmen. As they are listed, the capacities of the above halls are: 196, 166, 234, 96, and 60 respectively.

Freshmen dormitories: Harris Hall and Elliott Hall are designated to house freshmen men. Except for one wing, called Harris Annex, Harris Hall is non-air-conditioned. Elliott Hall is fully air-conditioned. Harris Annex houses 29 men (three to a room, except for one two-man room), Harris Hall proper houses 179, and Elliott Hall accommodates 192.

Note: A new 192-man air-conditioned hall and another air-conditioned unit of Thomas Hall (to house 96 men) are expected to be ready for occupancy in September of 1965. At this time, however, it has not been
determined whether they will house freshmen or upperclassmen nor has either hall been named.

**Terms and Conditions of Residence for All Student Housing**

To create a greater understanding of what is expected of each student by the college and to prevent embarrassing and costly misunderstandings from occurring, these "Terms and Conditions of Residence" are written.

1. Each student is responsible for familiarizing himself with all regulations which the college and/or the governing bodies of the residence halls have enacted or may enact. By accepting assignment in any student housing facility he agrees to abide by these regulations.

2. The Board of Regents has committed this college to maintaining full occupancy of all college-owned residences. Therefore, as long as college housing is available, all unmarried, undergraduate students are required to live in student housing facilities provided by the college. Exceptions: A student's age is at least 23; he lives at home; he lives with a close relative; he receives special permission from the appropriate associate dean of students.

3. Room and roommate assignments: If you have been assigned, you will be notified by letter of your housing assignment about one week before the cancellation deadline. This letter will tell you the name of the hall to which you have been assigned, when you should arrive and check in, and other general information. It will not tell the name of your roommate or your room number. These assignments are completed shortly before your arrival and will be given to you by your head resident when you check into your dormitory.

Roommate requests may be considered only if (1) both parties submit their requests in writing; (2) if both requests are recorded at the time the assignment is made; (3) if both parties are assigned to the same residence hall. Changes in roommate assignments may be made only with the approval of the head resident of the unit in which the student lives.

Please do not request a dormitory assignment change. Because of crowded conditions none can be made except when extenuating circumstances exist or when the director of housing decides that the change would be best for all concerned.

Because of the great demand for single-student housing, a room reservation may not be held beyond the time of occupancy specified in the assignment letter, unless the student notifies the head resident of his assigned dormitory that he intends to occupy the space at a later, specified time and/or date.

4. Re-assignments: While every effort is made to comply with students preferences, the college reserves the right to move or re-assign students to quarters comparable to those originally assigned at any time during their use of these facilities. Reservation of this right is necessary in order to keep the occupancy of all residence halls in desirable balance.
5. Priority: Priority for residence hall assignment is based on the date the application for student housing is received in the Housing Office. In order to adjust effectively to current fluctuating trends in enrollment, however, the college reserves the right to assign and re-assign spaces without notice and without consideration of priority when such action is deemed necessary for the benefit of the individual student or the group. The director of housing reserves the right to make the final decision on all assignments and re-assignments.

6. Residents who request to occupy rooms at less than full capacity, and the room is available, must make arrangements with the Housing Office and then pay the additional rent to the Office of Business Management.

7. When a student is granted special permission by the Personnel Office to live off-campus, he automatically agrees to abide by the same terms and conditions which govern all student housing. Permission to live off-campus may be revoked at any time the student fails to do so or is placed on scholastic or disciplinary probation.

8. All living arrangements are made for one semester only. This applies to both on and off-campus students.

9. Any change in residence—whether on-campus or off—must first be approved by the student Housing Office.

10. Each student is expected to keep his room clean and neat at all times and to correct immediately any abuse called to his attention by a college representative. Authorized representatives of the college have the right to enter any space at any time for the purpose of inspecting or maintaining it or for the purpose of enforcing rules and regulations. Room checks are held regularly, with spot checks being made by the head resident at his or her discretion.

11. Each student is responsible for the general condition of the premises assigned to him, including damages, defacement, and general order. Charges for damages or defacement will be assessed against the occupants and must be paid promptly. Charges for damages to or defacement of any area in common use, such as bathroom, lounge, recreation room, or corridor, may be assessed equally against residents in the appropriate using area.

12. Married women students are not permitted to live in residence halls during the fall and spring semesters. A woman who marries during one of these semesters while living in a dormitory must move out immediately. A divorced, legally separated or widowed woman, however, is permitted to live in a dormitory.

13. No soliciting or selling is allowed in a residence hall unless approval has been granted by the Personnel Office and Office of Business Management.
14. All undergraduate students who live in dormitories are required to purchase a meal ticket. A student who has an unusual condition and requests permission to eat elsewhere must contact the dean of students. (No evening meal is served on Sunday in either the cafeteria or the co-operative halls.)

15. Intoxicating beverages in any and all forms must not be brought into any student housing facility nor consumed on or near college premises. A student found guilty of violating this regulation or of entering a residence hall under the influence of alcoholic beverages is subject to severe disciplinary action.

16. Student gambling in any and all forms is strictly prohibited.

What to Bring With You

You will want to use space in your room to the best advantage, so we suggest that you bring only a minimum of personal belongings at first. Too, since roommates usually plan decorations together, it is wise to defer purchase of curtains and other matching furnishings until after the room is permanently occupied.

Each student supplies his own pillow, bed and bath linen, blankets, bedspread, curtains, scarves, clock, etc. Radio and record players are allowed in student rooms, provided they are always tuned softly enough not to disturb others. Violation of this rule can result in loss of the privileges.

What Not to Bring

The following items are among those prohibited in student rooms: air-conditioners, evaporative coolers (electric fans are permitted), ice boxes, refrigerators, exterior aerials and antennae, television sets, all cooking appliances (for reasons of safety and sanitation), heavy electrical appliances, pets, firearms, ammunition, firecrackers or other explosives, and body building weights. (Adequate weight facilities are provided in the college gymnasium. Weights also create a noise problem and can easily damage floors.)

Married Student Housing

Riverside Homes and Riverside Apartments are provided for qualified married students. Both are conveniently located between Evans Field and the main campus. To be qualified, a student must be taking at least 12 hours per semester or four hours per summer term.

All applications for housing at Riverside Homes and Apartments should be made to the Manager, Riverside Homes and Apartments, San Marcos, Texas, 78666. A deposit of $10.00 is required when application is made. This deposit can be refunded or transferred to another semester,
provided the manager of Riverside is notified at least 30 days before the beginning of the semester for which the apartment is reserved.

When sending an application, be certain to specify whether you want a furnished or unfurnished unit, whether you want a one-, two-, or three-bedroom apartment, the date you expect to move in, and whether you are applying for "Riverside Homes" or "Riverside Apartments." You may use the application form in the back of this catalog.

Remember . . . . no pets allowed at Riverside.

**Riverside Homes**

This is a wartime federal housing-type project. Each apartment consists of a living room-kitchen combination, one, two, or three bedrooms, and a bath. Each apartment has a separate entrance and small front and back yards. Both furnished (except refrigerator) and unfurnished apartments are available.

An extra charge is made for air-conditioners, evaporative coolers, and electric stoves when the occupant installs these in his apartment. Permission must be given by the manager before installation, since there may be a problem concerning adequate electric current supply. No appliances are available through the college.

**Riverside Apartments**

These are one bedroom apartments, arranged in two-story, masonry constructed buildings. Eight apartments compose each of the six units. Each apartment consists of a living room, kitchen-dining room combination, adequate cabinet space, one bedroom, tiled bath with tub and shower, closets, panel ray heaters, and an electric heater in the bathroom. Except for an electric stove and refrigerator in the kitchen, each apartment is unfurnished. Air conditioners may be installed with the manager's permission and by paying the additional electrical charge per month.

**FOOD SERVICES**

The food service arrangements, like those for housing, are a part of the overall educational plan of the college. The college dining halls are located on the first and second floors of The Commons. Residents of all halls except the cooperative houses are required to take their meals in college cafeteria. This food service endeavors to help the student develop wholesome food habits. The menu planning and meals service are supervised in order to insure the student an adequate diet. The cafeteria is used by students, faculty members, administrative officers, and college guests. The Spur Room, a special dining room located on a lower floor of The Commons, is available to college groups by reservation.
HEALTH SERVICES

One of the important aspects of successful college living is "healthy living." To this end, the college has established a forward-looking policy regarding the maintenance of good student health.

A beautiful infirmary is located on the campus in order to take care of health needs of the students. Two part-time doctors have made their services available to the students in such a way that 24-hour service (several days a week) is possible in cases of emergency. These doctors alternate in handling sick calls (daily except Saturday and Sunday) Monday through Friday, 3:30 to 5:30 p.m. They are available for private consultation at these same hours. Their college office is located in the infirmary. In addition to rendering professional medical services, the doctors serve as physicians for the athletic teams and administrative officials in the various councils with the Division of Personnel.

Infirmary Office Hours

A.M.  8:30-11:30  Monday through Saturday
P.M.  3:30-5:30  Monday through Friday

Offices close at noon on Saturday and remain closed through Sunday, except in case of real emergency. Offices also will be closed on all holidays.

Two registered nurses and a part-time assistant are on duty 24 hours a day at the infirmary. They administer much of the first aid and care for the hospitalized students in addition to serving as resources in the overall school campaign for more healthy living.

The college has made provision, at no extra charge to the student, for hospitalization (up to 5 days) in the Hays County Memorial Hospital, for emergency surgery, and for other cases or when the college physicians prescribe special care for students involved in accidents occurring in school-sponsored activities. Such cases must be referred by the college physicians, however.

The building use and matriculation fee cover all the services, and the college urges all students to make maximum use of the many facilities available for establishing and conserving health.

COUNSELING SERVICE

The college maintains counseling services available to students in several areas. General counseling is done by members of the Office of Personnel. Both areas of counseling include freshman orientation, dormitory counseling, and faculty counseling. A testing service and personnel records are also maintained.
Freshman Orientation. To enable freshmen and other new students to become familiar with their new college environment, the first few days of the semester are set aside for their orientation by student leaders and faculty members. Much valuable information will be made available at this time, and all new students are strongly urged to participate fully in this program.

Dormitory Counseling. Mature women serve as head residents of the women's halls and married couples serve as head residents of men's halls. These head residents are available to the students residing in the dormitories as counselors and devote much of their time to counseling with students in matters of group living and on personal problems.

Selected upperclass students also serve as counselors in the freshmen residence halls. These students work with the head residents to improve group living, welfare, and morale. The Testing and Guidance Center also maintains a counseling office in each freshman dormitory where each freshman student receives systematic academic adjustment guidance from specially trained student academic counselors.

Testing and Guidance Center. All freshman are given a battery of academic ability, achievement, and attitude tests to aid in classification and counseling. The test results are interpreted to the student, at his request, by the Testing and Guidance Center. Opportunity for additional psychological testing and individual counseling, as appropriate to the student's needs, is provided through a systematic advisement program under the supervision of the Director of Testing and Guidance.

Faculty Counseling. New students are assigned to faculty advisors for counseling on their academic problems. Assignment to a faculty advisor is made on the basis of the student's major. Students who do not have a major are assigned to faculty members selected to work with non-majors. The student remains with the same counselor during his freshman and sophomore years unless a change of major is made. In that case a change of counselor is also made. When the student becomes a junior the head of his major department becomes his counselor. Transfer students are expected to contact the Director of Testing and Guidance for assignment to a faculty advisor.

Personnel Records. In order to aid in the understanding and counseling of all students, the personnel folders are maintained in the Office of the Division of Student Personnel.

EMPLOYMENT AND FINANCIAL AID

Student Employment. The college provides many opportunities for student self-help. College offices, the cafeteria, and the dormitories are among the places on the campus which employ a goodly number of college students. A student who is fortunate enough to receive one of these jobs must maintain a satisfactory academic record in order to hold his job.
Such a condition is mandatory because of the many students who wish some form of employment. This student service is under the supervision of the Division of Personnel.

Financial Aid. The Dean of Students is chairman of the faculty committee on financial aid. All inquiries should be directed to the Dean of Students, Division of Personnel, unless otherwise indicated, and aid is available in the form of both scholarships and student loans.

SCHOLARSHIPS

Freshman Scholarships. A limited number of scholarships are available which provide in the main for tuition, fees, and books. These scholarships are available to freshmen and range from $100 to $150. Students who are interested in making application for one of these scholarships should apply to the Dean of Graduate Studies for application blanks.

The Ex-Students Chapel Fund. The Ex-Students Association has directed that the funds raised by the association for the erection of a worship chapel be invested, the interest from which may be used for scholarships.

The James Taylor Memorial Fund. Friends of the late Dr. James Taylor, Director of the Division of Social Sciences from 1946 to November, 1962, have established a memorial fund to be invested, the interest from which is to be used for scholarships.

The Archie Grusendorf Memorial Fund. The friends of the late Archie Grusendorf have placed a fund with the college to be used as a memorial. When the fund reaches an agreed-upon amount, it will be invested and the interest used for an annual scholarship.

The C. E. Evans Memorial Scholarship Fund. Since the death of President Evans, many of his friends have contributed generously to a fund designed to provide a scholarship in his honor. From the investment of this fund is derived an annual scholarship, to be awarded through the Scholarship Committee.

The Charles Spurgeon Smith Memorial Fund. This fund was established in 1952 by the friends of Dr. Charles Spurgeon Smith as a memorial fund, following his death in August of 1952. An award of $50 is made annually in the spring of the year to an outstanding student majoring in biology. Dr. Smith joined the faculty of this college in 1913 and served as head of the Biology Department from 1919 until his death.

The Max Reiter Memorial Fund. This fund is named for the distinguished conductor of the San Antonio Symphony, Max Reiter, who died in 1959 after his last concert on this campus. The fund is invested, and an occasional scholarship to a music major is awarded.

The Sue King Scholarship. The Delta Kappa Gamma Society established
an annual award in 1942 which is available to Texas members of the society for summer study. Amount: $80.00. Applications should be made through the State Chairman, Committee on Scholarships, by February 1, for awards granted for the succeeding summer session.

The Bill Matthews Scholarship. Friends of the late student, Bill Matthews, who met his tragic death in 1961, have contributed to a fund to be used as a memorial scholarship in his honor, to be awarded to speech or music majors.

LOANS

National Defense Student Loans. Student loans are available through the college under the National Defense Education Act of 1958. Applications for loans are considered on the basis of financial need and demonstrated academic ability. Only students who have an above-average academic background are eligible. Special consideration is given to students who have a superior academic background; plan to teach in elementary or secondary schools; possess an academic background which indicates special aptitude in the areas of science, mathematics, engineering, or a modern foreign language. Applications should be filed not later than July 15 for the fall and spring semesters, November 15 for the spring semester only, and April 15 for the summer session. Application forms and further information may be secured by addressing the treasurer of student loans.

The Jack Arnold Memorial Fund. This fund was begun in 1921 by Dr. and Mrs. M. L. Arnold as a memorial to their son, Jack, who sacrificed his life in France in World War I and who, prior to his enlistment in the United States Army, had been a student in Southwest Texas College.

The Chamber of Commerce Loan Fund. In the regular session of 1923-24 the San Marcos Chamber of Commerce established an emergency loan fund which is available to students who qualify for loans.

The Delta Kappa Gamma Loan Fund. Delta Kappa Gamma, an organization which promotes professional ideals of service and good scholarship, gave $1,500 to the college in February, 1943, the interest of which fund is to be used as a loan fund to members of this group. This gift has been invested, and loans can be made from the accrued interest.

Ex-Students Association Fund. This Association has from time to time contributed to other loan funds of the college, but in 1929 it established an independent loan fund.

The Freshney-Shaver-Fenn Fund. The fund was started by faculty members in honor of Alfred Frehney, B.S., professor of chemistry and physics from 1903 until his death in November, 1906, and added to in honor of Cary C. Shaver, B.Litt., assistant professor of mathematics, 1912-1914, who died in February, 1915, and Arthur L. Fenn, B.A., M.S.,
assistant professor of physics from September, 1927, until his death in December of the same year.

The Harris-Blair Student Loan Fund. This fund has been raised by the Harris-Blair Literary Society to aid worthy students regardless of society affiliations.

The Kappa Lambda Kappa Loan Funds. Kappa Lambda Kappa, undergraduate home economics organization, maintains two loan funds. The Cora Lay Fund, set up when the club was organized, is available to eligible seniors enrolled in the curriculum for teachers of vocational home economics. The Bess Barnes Loan Fund, set up in 1958 before Miss Barnes’ retirement, was designed after her death in 1959 as a memorial to Miss Bess Barnes. It is available to worthy junior and senior students of home economics.

The John E. Pritchett Memorial Fund. This fund consists of subscriptions from students, faculty, and other friends of John E. Pritchett, B.A., M.A., professor of Latin in the college from 1903 until his death in November, 1919.

The Taber Loan Fund. The fund, created by Mrs. G. G. Tansey in memory of Lawrence R. Taber of Smithville, is available to worthy students from Texas.

Students of SWTSC who have established their sincerity, integrity, and a scholastic record which meets degree requirements may borrow amounts less than $100.00 on short-term signature notes. Otherwise, sureties may be required.

The Hogg Memorial Loan Fund. In accordance with a provision made in the will of the late Will C. Hogg, the college has been made the recipient of a bequest in the sum of $25,000 to be used as a fund to be loaned to worthy young men and women of Texas who need assistance in acquiring an education. This fund is supervised by a Board of Directors representing the Hogg Memorial Loan Fund.

STUDENT ACTIVITIES AND ORGANIZATIONS

The extra-curricular program of the college provides many and varied opportunities for the student to participate in organized college sponsored activities. Included in this program are student government, departmental and professional organizations, special interest groups, social clubs, and religious organizations. The student handbook “Hill Hints” which is published annually, describes in detail the extra-curricular program of the campus and is available in the office of the director in charge of the student life program in the Student Center Building.

Students are urged to maintain a balance between extra-curricular and class activities. Membership in charter organizations ordinarily may
be maintained only if a "C" average is achieved. Students dropping below the average are ineligible for active membership until such average is re-established, and during periods of ineligibility may not attend club functions other than those designated as "all-campus" activities. No upper-classman may be elected to a class or student body office who does not have a "C" average on all work done at Southwest Texas State College, and no freshman who enters the college on probation may hold office until he is removed from probationary status and has established a "C" average on work taken at this college.

The following councils and boards share the responsibility for planning and coordinating organizational and dormitory activities.

Student Senate. In order that the students of the college may learn the meaning of democracy through participating in the actual experiences of responsible, democratic citizenship, provision is made for a student governing body elected to office by the students. This body is known as the Associated Students and consists of executive, legislative, and judicial bodies, each of which meets regularly to discuss and act on matters pertaining to the general well being of the student body. With few exceptions the meetings are open to the public and all students are invited to attend. The Dean of Students serves as the advisor to the Associated Students.

Student-Faculty-Administration Board. The Student-Faculty-Administration Board is composed of six students from the junior and senior classes and six members of the faculty and administration of the college. The purpose of this board is to operate in an advisory capacity, upon request, to any campus group, to foster academic and cultural activities on campus, and administration.

Student Religious Council. The Student Religious Council is composed of two elected representatives from each of the student religious groups on campus. The purpose of the Council is to foster the religious life of the campus community, to give encouragement to existing religious groups and to help with the organization of new groups as the need arises, and to plan and coordinate all college-sponsored, campus-wide religious activities, such as Religious Emphasis Week, Christmas and Easter services, chapel programs, and other special religious observances. Denominational groups now active on campus are Baptist Student Union, Canterbury Association, Christian Science Student Association, Church of Christ Student Association, Gamma Delta, Lutheran Student Association, and the Newman Club. The student work of the Disciples of Christ, the Presbyterian, and the Methodist denominations is sponsored jointly through the Campus Christian Community.

Association of Women Students Council. In each residence hall, the members elect representatives to house council which works with the head resident in providing for the physical, social, academic, and ethical welfare of all the residents. The president of the hall who is elected by the residents presides at each house council meeting and at all meetings
of the entire hall. The A.W.S. Council is composed of the executive offices of the council and of the presidents and vice presidents of all the women's residence halls. The council meets regularly with the Associate Dean of Students in charge of women's affairs to co-ordinate activities in the residence halls.

**Men's Interhall Council.** The Men's Interhall Council is composed of six members. The president of each dormitory council and one other council member appointed by each president compose this council which meets with the Associate Dean of Students in charge of men's affairs to consider problems common to all dormitories.

**Social Club Councils.** The councils which govern the activities of the campus social clubs are the Inter-Sorority Council and the Inter-Fraternity Council. These councils, composed of representatives from all the social clubs, meet twice a month to coordinate the activities of the four women's and four men's clubs and have as their objective the planning of a well-rounded social program for the campus.

**Student-Faculty Committees and Councils.** Many other committees and councils, such as the Student Center Board of Directors and the committee for Homecoming, are composed of both students and faculty to work on specific aspects of the activity program. The Student Senate appoints student representatives to these committees and the President of the college appoints the faculty members.

**Student Union Council.** The Student Union Council is composed of the President, Vice-President, Secretary, and eight committee chairmen selected by the outgoing officers on the basis of past performance. Working with the director in charge of the student life program, the council plans a varied program of activities for the Student Center. Included in the Union program are dances, games, films, talent shows, art shows and other fine arts programs. The entire council meets twice a month, and the chairmen meet each week.

**HONORARY ORGANIZATIONS**

**Alpha Chi.** The Texas Iota Chapter of Alpha Chi (the Nolle Scholarship Society of the Southwest Texas State College) is a charter member of the State organization perfected in 1922 under the name of The Scholarship Societies of the South, and nationalized in 1934 as Alpha Chi. The object of Alpha Chi is the stimulation, development, and recognition of scholarship and those elements of character which make scholarship effective for good. The members are chosen in October or November of each year from the junior and senior classes according to their rank in scholarship as shown on the college records, with good reputation and character as first qualifications, and again from the senior class at graduation time at the close of both the long session and the summer session, the number of members being limited to one-tenth of the enrollment in each class. Meetings are held regularly each month.
Alpha Phi Omega. Alpha Phi Omega, established on the campus in 1959, is a national service organization composed of college and university men who are or have been connected with the boy scout movement. Its purpose is to assemble college men in the fellowship of the scout oath and law, to develop friendship and promote service to humanity. The organization was founded in 1925, and since that time has established more than 250 chartered chapters on college and university campuses in America.

Circle K. Circle K International sponsored by Kiwanis International, was established on this campus in 1962. Its objects are leadership, service, and good citizenship. Circle K clubs are found on 444 college campuses.

Delta Phi Alpha. Epsilon Lambda Chapter of Delta Phi Alpha was established on this campus in April 1962, with 11 charter members. This organization is a National Honorary German Fraternity composed of young men and women who pursue a major or a minor in German and who have a record of high academic achievement. The fraternity seeks to recognize excellence in the study of German and to provide an incentive for higher scholarship. The organization is under the administration of scholars and teachers of high professional standing.

Delta Psi Kappa. The Alpha Kappa Chapter of Delta Psi Kappa was established on campus in May 1948, with 24 charter members. It is a national scholarship society for young women who major or minor in health, physical education, and recreation. The purpose of Alpha Kappa Chapter is to provide experience in the college life of the students that will prove beneficial from the professional point of view as a worker in either of the areas. Recognition of the student carries with it over the United States and other countries, prestige in scholarship and professional abilities.

Membership in Alpha Kappa Chapter is by invitation and is restricted to young women currently enrolled in college.

Delta Tau Alpha. This honor society in agriculture was organized on a national basis in March 1960. The membership is composed of students of high character and academic achievement. The purpose of Delta Tau Alpha is to encourage and recognize students of high professional, intellectual, and personal standards. Southwest Texas State College was a charter chapter.

Epsilon Pi Tau. Alpha Mu Chapter, established on the campus of Southwest Texas State College, November 17, 1951, is one of more than 40 such chapters of Epsilon Pi Tau, the International Fraternity in Industrial Arts and Industrial-Vocational Education. Among the objectives of the fraternity are the development of technical skills, growth in social efficiency, and the recognition of scholarship and professional research. Membership is drawn from the upper 20 per cent of junior and senior classes.

Kappa Delta Pi. Eta Zeta Chapter of Kappa Delta Pi, an honor society in education, was installed on this campus May 19, 1951. The purpose of
Kappa Delta Pi is to encourage high professional, intellectual, and personal standards and to recognize outstanding contributions to education. To this end it invites to membership such persons as exhibit commendable personal qualities, worthy educational ideals, and sound scholarship. It endeavors to maintain a high degree of professional fellowship among its members and to quicken profession growth by honoring achievement in educational work.

**Kappa Pi.** Alpha Pi Chapter of Kappa Pi National Art Fraternity was organized on the campus February 15, 1946, with 26 charter members, including faculty, students, and alumni. The purpose of the fraternity is to raise the standards of productive artistic work among the students in colleges and universities, and to furnish the highest reward for conscientious efforts in furthering the best interest of art in the broadest sense of the term. Election to membership in the fraternity is honorary and is extended to those students who, by their influence, their artistic interest, and their meritorious work have exhibited the highest standards in scholarship and character.

**Mu Phi Epsilon.** Alpha Pi Chapter of Mu Phi Epsilon is the professional society for music majors and minors whose academic record meets a high standard. The local chapter is nationally affiliated and operates to raise the level of all music achievements.

**Phi Mu Alpha Sinfonia Fraternity of America.** The Gamma Phi Chapter of Phi Mu Alpha Sinfonia was established on the campus in 1947 with 33 members. The purpose of Gamma Phi Chapter is to provide music experience to its members aside from and in addition to that experience in regular course work, and to foster especially American music. To this end the chapter presents several programs each year, one of which falls on or near February 22 and is to be an All-American program.

Membership in Gamma Phi Chapter is by invitation and is restricted to men of sophomore rank or above currently enrolled in college.

**Pi Gamma Mu.** The National Social Science Honor Society, Pi Gamma Mu, was founded in 1924. The Texas Eta Chapter was organized on this campus in 1928. Its purposes include helping improve scholarship in the social sciences, assisting in finding an intelligent approach to solving social problems, engendering sympathy towards differing opinions and institutions, and serving as a nucleus for other social science organizations. The privilege of membership in the society is granted to those who have shown unusual interest and aptitude in the study of the social sciences. Membership requirements include a “B” average in all college work as well as a “B” average in the social sciences with a minimum of 20 such hours.

**Pi Omega Pi.** Organized June 13, 1923, at the Northeast Missouri State Teachers College. Pi Omega Pi has grown over the years to 80 active chapters over the nation. The ideals of service and scholarship are stressed in the organization which was organized to honor outstanding business
educators and business education students and to promote business education.

Gamma Kappa Chapter was officially installed at Southwest Texas State College, November 11, 1951, with 20 charter members.

**Sigma Alpha Eta.** Beta Omicron Chapter of Sigma Alpha Eta, established on campus in September of 1958, is one of nearly 40 nationally affiliated chapters. Sigma Alpha Eta is a professional fraternity for students interested in speech and hearing correction and others who have a genuine interest in the field. The aims of the organization are to promote understanding of and interest in problems in speech and hearing; to encourage professional cooperation; to stimulate academic and clinical achievement; and to increase awareness of related work in other institutions across the country.

Sigma Delta Pi. The Epsilon Beta Chapter of Sigma Delta Pi was established on campus in April 1962, with five charter members. This organization is the National Honorary Spanish Fraternity comprised of young men and women who pursue a major or minor in Spanish and who have a record of high academic achievement. The purpose of Sigma Delta Pi is primarily the recognition of high scholastic achievement in the study of Spanish as well as recognition of overall academic achievement. A further aim is to promote interest in all facets of Hispanic culture and tradition.

Membership in Epsilon Beta Chapter is by invitation and is restricted to young men and women who have completed two Spanish Literature courses of junior level (or who are currently enrolled in a literature course in the second semester or junior level) and who have maintained a "B" plus average in Spanish as well as a "B" minus overall average.

**Sigma Tau Delta.** Omega Epsilon Chapter of Sigma Tau Delta, Professional and Honorary English Fraternity was established on the campus in February 1952, and is one of more than 80 such chapters throughout the nation. Its purpose is to promote a mastery of written expression, to encourage worth-while reading, and to foster a spirit of fellowship among persons specializing in the English language and literature. Its motto is "Sincerity, Truth, Design." Membership is by invitation to those students who have indicated a high degree of interest in the English language and literature, have maintained a consistently high grade average both in their English courses and in their general scholastic standing, and manifest a sincere desire to associate with others of like aspiration and to understand and appreciate more deeply the English language and literature.

**Arnold Air Society.** The Charles J. Kelly Squadron of the Arnold Air Society, a national honorary organization for advanced Air Force R.O.T.C. Cadets, was organized on the campus in 1951. The purpose of this society is to further the purpose, mission, tradition, and concept of the United States Air Force as a means of National Defense, promote American
citizenship, and to create a close and more efficient relationship among the Air Force Reserve Officers' Training Corps Cadets. Membership in the society is by invitation only and is restricted to young men currently enrolled in the advanced phase of the Air Force R.O.T.C. Corps.

RECREATIONAL FACILITIES

Student Center. The Student Center, equipped with a variety of recreational equipment, is the common meeting place of all students. Here students chat, study, read magazines, dance, play games, listen to the radio, or view television programs. The club rooms, lounges, a ballroom and music room provide meeting places for various group activities. In the Center are located the offices of the Student Senate, the Student Religious Council, and the Director of Student Life. The Lair, college bookstore and coffee bar, is located on the first floor of the Student Center Building and is supervised by a director. Texts, school supplies, athletic goods, and other incidental needs are available in the bookstore at reasonable prices. The coffee bar is another popular meeting place for students and faculty where cold drinks, coffee, sandwiches, candy, and ice cream may be obtained.

The group responsible for the policies and program of the Center is the Student Center Board of Directors, a student-faculty board. Activities sponsored by this board include a cultural and foreign film service, coffee orums, dances, and other social and recreational activities.

College Camp. The college has a 125 acre campsite located on the Blanco River in the Wimberly hills. Students and faculty groups find this an ideal spot for swimming, fishing, hiking, and overnight outings. The campsite was donated to the college in 1951 by Mrs. J. K. Beretta of San Antonio.

Sewell Park. A popular recreational feature of the college plant is Sewell Park, located on the San Marcos River which is fed by springs, less than a mile above. Here there are many opportunities for picnics, cook-outs, dances, games of the recreational type, and just relaxing should that be the wish.

The swimming pool is well adapted to the needs of both beginners and experienced swimmers and is large enough to accommodate from 200 to 300 persons at one time. It is lined with concrete retaining walls and is adequately equipped with springboards, diving towers, and safety ropes. A large concrete slab located on "The Island" is ideal for skating and dancing. A stone bath house is amply designed with showers and dressing rooms.

Gymnasiums, Athletic Field and Tennis Courts. Two modern, fully-equipped gymnasiums adequately house indoor physical education and recreation activities for both men and women. Large playing floors,
handball courts, classrooms, locker rooms, showers, and supply rooms containing recreational equipment of every description are found in each of these gymnasiums.

Tennis enthusiasts are provided with three practice tennis courts near the gymnasiums, and four new courts adjacent to the practice field.

OTHER ACTIVITIES

Athletics. The Southwest Texas State College is a member of the Lone Star Athletic Conference and is governed by its rules and regulations. The conference maintains a program of inter-collegiate competition in football, basketball, tennis, golf, track, and baseball. In addition to competitive sports the college maintains an extensive intramural program.

To be eligible to participate in inter-collegiate athletic contests a student must meet the following conditions: (a) he must be enrolled for at least four courses representing a minimum of 12 hours of work; (b) he must have made a passing grade in at least nine hours of work in the preceding semester; and (c) he must not be under discipline.

Intramural Programs. The college feels that intramural sports provide an outlet for the desire for competition which college students possess and for which the inter-collegiate sports is not the answer. The average young man and woman who is not of varsity calibre is thus given a chance to satisfy this need. In addition, these programs serve as laboratories for the skills learned in the required classes in physical education activities. As a result, a wide variety of activities if offered through the the intramural sports program.

Emphasis is placed upon participation. The greatest possible number of men and women students is encouraged to participate in some activity.

Officials for the various activities are drawn from officiating classes of the respective physical education department. Equipment for the most part is furnished by these departments.

Men's Program: Touch football, basketball, volleyball, tennis, table tennis, softball, and handball provide competitive sports. Intramural Board supervises the program which is open to all regularly enrolled men students.

Women's Program: The Women's Recreation Association provides recreational and sports activities for all women. Camping activities, picnics, play days, sport days and competition with other schools are part of the planned program.

The Tumbling Club, Modern Dance Club, and Aquatic Club are sponsored clubs, open to both men and women.

Musical Organizations. The musical organizations of the college are open to all students of the college, subject to approval of the director of
each organization. The formal registration for and satisfactory performance in chorus, orchestra, or band carries one semester hour credit per semester with it and may be used toward graduation within the limits prescribed elsewhere in the catalog.

The Band Organization. The College Band Organization is composed of four units: the Majorette Corps, the Girl's Precision Dance Team known as "The Southwest Texas Strutters", the Band (playing unit) and the Color Guard.

1. Majorette Corps:

Organized in 1952, the Majorette Corps is a popular feature on our campus. The majorettes perform at all home football games, parades and wherever the band organization appears. Membership is limited to 18 girls who are the best baton-twirlers on our campus. All girls who have had majorette experience are eligible to try-out for membership in the Majorette Corps.

2. The Southwest Texas Strutters:

First organized in 1960, the "Strutters" have won wide-spread popularity for themselves, our college and the State of Texas through their precision-dance performances at football games and parades wherever the band organization has appeared. Previous experience is not required. Membership is limited to 70 live-wire girls with a lot of spirit.

3. The Band:

Membership in the college band is open to all college students who can play band instruments. In the fall the band serves as a football band. In November the band converts into the concert band. The college provides many instruments for students who do not own instruments. Out of town trips will be taken each year.

4. Color Guard:

This group is composed of 14 boys who march with the band organization at public functions. They are chosen after try-outs and are considered fundamental parts of the band organization.

The College Chorus. The College Chorus attempts to provide basic vocal training and experience for every college student who manifests an interest in choral singing. Previous training and experiences, though desirable, are not required. The performances of the College Chorus are largely limited to the campus.

A Cappella Choir. This organization is chosen from the student body by auditions only. Eligibility for membership in it is determined on the basis of musicianship, vocal ability, character, and scholastic standing. This organization is privileged to make concert tours of the State officially representing the college. Additionally, special performances are staged on and off the campus for many and varied professional civic organizations.
Dramatics and Forensics. This organization known as The College Theatre, closely affiliated with the Speech Department, offers excellent opportunities to students interested in literary interpretation and training in dramatics. The Speech Department, too, exercises sponsorship of debating, oratorical, and extempore speaking activities both intramural and intercollegiate.

PUBLICATIONS

The college issues an annual catalog in March and a summer bulletin with announcements of summer courses in February.

The College Star is a weekly school news publication issued by the students of the college under the supervision of the Department of Journalism.

The Pedagog, which represents campus activities for the current year, is the yearbook of the college.

Positions on the editorial and business staffs of the Pedagog and Star are open to all students not on scholastic probation. Although editors of the two publications are elected by the student body, other positions on the staff are appointed, and students are encouraged to apply for the position. Students need not be majoring in journalism to apply. Work on the Pedagog and the Star places the student in a position of central importance on campus, and the student obtains considerable benefit in learning the art of written communication.

ASSEMBLY PROGRAMS

Assemblies of faculty and students are called from time to time. Programs include educational, religious, and student body projects.

DRIVING AND PARKING REGULATIONS

All students and faculty members are requested to observe all driving and parking regulations set up by the college. The regulations are generally indicated by markings on the streets and curbs and by signs. These regulations have been formulated for the benefit of all drivers. To violate them will inconvenience others.

Car Registration Required

1. All cars driven on the campus by students, faculty members, and other employees of the college must be registered with the Office of Business Management on September first of each year or as soon thereafter as each car is brought on campus.

2. When a car is registered, the driver will be given a gummed sticker for 1964-65 with a permit number which must be placed in
the upper right hand corner of the front windshield where it may be seen at all times. Only one permit may be displayed.

3. The permit will entitle the student to drive on the campus and to park his car in a designated zone or zones assigned to the permit, but not in areas marked "Restricted" or "Reserved". All cars must be in the zone assigned to the permit between the class hours of 7:30 a.m. to 4:00 p.m. "C" permit stickers will be allowed to park in zones not restricted or reserved.

4. Faculty members and other full-time college employees are entitled to Special Permit which entitles them to park their cars in the "Restricted" areas. Student members of faculty families are not allowed to park in restricted areas on the campus. Students with serious health problems may make application for the "Special Permit" in the Office of the Assistant Business Manager.

5. Students and faculty members who do not register their cars and display the registration number will not be permitted to drive or park their cars on the campus during the regular school hours. Parking violation tickets will be placed on cars not displaying the parking permit.

6. Your responsibility as a driver requires that you observe the above regulations as shown under "Driving and Parking Regulations", as well as city, county, and state regulations on driving and parking.

7. Violations of any of the driving and parking regulations will necessitate assessment of fees of:

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<td>Seventh offense and each subsequent offense thereafter</td>
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*Third offense ticket for No Parking Permit—car license will be checked through Police for ownership.

4.00 and Driver Probation

8. The college reserves the right to remove any illegally parked car from the campus by college vehicles or by a privately owned wrecker. The car's owner will be required to pay tow charges in addition to the parking violation fee.

9. Permits left on cars 5 days beyond expiration date will be illegal permits.

10. All drivers will be responsible for obtaining the proper permit.
11. Flagrant and excessive violation may cause a car to be immobilized where it is parked. Permission to remove the immobilized device must be obtained from the Office of the Assistant Business Manager during regular office hours, Monday through Saturday. After these hours, permission must be granted by the campus security officer.

12. All cars must be driven in a safe and prudent manner. Drivers must be in absolute control of cars at all times, maximum speed limit of 15 miles per hour in effect on all college streets.

DEAD WEEK

The week preceding semester examinations is designated as "Dead Week," the purpose of which is to give students sufficient time for review. Student organizations do not meet or hold social affairs. The college calendar is inactive.

Written examinations, except to cover daily assignments, are not given, and themes or other assignments beyond daily requirements are not made. No final examination nor portion of it is to be given during "Dead Week" without the express approval of the Dean of the College.

During dead week, students study anytime they can.
ADMISSION AND GRADUATION REQUIREMENTS
Admission Requirements

A. Admission by Graduation from High School. Students of freshman classification who have completed less than a 12 week term in another accredited college or university, will be admitted under the following conditions:

1. Recommended entrance requirements:
   a. Graduation from an accredited high school with a total of 16 units of credit in addition to health and physical education and satisfactory completion of the American College Testing Program battery of tests.
   b. Four units in English.
   c. Two units in mathematics, including algebra and plane geometry.
   d. Two units in laboratory science, including one in biological science and one in a physical science.
   e. Two and one-half units in social science.
   f. Two units in a foreign language.

2. Minimum entrance requirements:
   a. Graduation from an accredited high school with a total of 16 units of credit in addition to health and physical education and satisfactory completion of the American College Testing Program battery of tests. (CEEB, Scholastic Aptitude Test, scores may be substituted for admission—ACT must be taken at student's expense before registration).
   b. Three units in English.
   c. Two units in mathematics.
   d. Two and one-half units in social science.
   e. Two units in a laboratory science (two years of vocational courses or two years of a foreign language may be substituted for one unit of science).

3. Minimum acceptable test scores by high school rank:

<table>
<thead>
<tr>
<th>High School Rank</th>
<th>Minimum Test Score</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACT (Standard Comp. Score)</td>
</tr>
<tr>
<td>1st quarter</td>
<td>9</td>
</tr>
<tr>
<td>2nd quarter</td>
<td>9</td>
</tr>
<tr>
<td>3rd quarter</td>
<td>13</td>
</tr>
<tr>
<td>4th quarter</td>
<td>15</td>
</tr>
</tbody>
</table>
4. All students who, in academic achievement, fall in the lowest one-fourth of their high school graduating class are not encouraged to apply for admission; if they do wish to apply, they must satisfactorily pass the American College Testing Program battery of tests.

Note: High school graduates otherwise adjudged eligible to be admitted to the freshman class but who do not include in the 16 units described for admission one or two of the nine and one half units specifically identified may be admitted conditionally, the condition to be absolved by the close of the freshman year, provided that those enrolling with less than two units of credit in mathematics will be expected, at the time of their initial enrollment in the college, to evidence competency in mathematics equivalent to the above stated entrance requirement to be demonstrated by tests on techniques and information in the subject. Students who fail thus to remove the entrance condition in mathematics may be required to offer toward graduation the credit earned in Mathematics 11 in addition to the 128 semester hours normally required for graduation.

High schools inspected and approved by the Texas Education Agency are listed in the annual directory issued by the Agency. Units offered for admission must be found in the directory of even dated years.

B. Admission by Transfer

1. Credits from other institutions. Credits to be allowed for work done in any college or university is determined by the Registrar of the college upon the basis of a transcript of such work signed by the proper authority, provided that the application of such credit toward graduation will be determined by the Dean of the College in accordance with the requirements of the student's degree program. Moreover, the student must file separately a transcript of his high school credit unless such high school credit is entered on the official transcript of his college work.

Courses in which a grade of "C" or better has been earned will be accepted subject to the above conditions. Under no conditions will "D" grades be accepted.

Applicants who have completed less than a 12 week term in another accredited college or university must meet entrance requirements under Admission by Graduation from High School.

2. Minimum requirements for admission:

a. The applicant must be in good standing at his previous college or university and eligible to re-enroll for the semester or term for which admission is requested.

b. The applicant must, in addition to "a" above, present a record of work during the last two semesters which would make him eligible under the standard of work required of students in the same classification at this institution. (See pages 85-88)
C. Admission Upon Individual Approval. Applicants over 21 years of age may be admitted by special permission of the Registrar provided they present evidence of sufficient ability and determination to pursue college work. Students so admitted may satisfy their college entrance requirements by the completion of at least 30 semester hours of college work, of which six must be in English, six in the social sciences, and either six hours in physical science, or six hours in mathematics, and provided they make an average grade of "C" or above on the 30 hours of work completed.

D. Admission of Veterans. Any student who has served in the Armed Forces of the United States may be admitted by special permission of the Registrar subject to the regulation governing admission upon individual approval as it applies to other applicants, provided he is 18 years of age or over.

Student Conduct. The Southwest Texas State College invites to its classrooms only persons of good habits, strong character, and noble purposes. Students of this type voluntarily refrain from improprieties of conduct, and counsel freely with the President and members of the faculty. Under these conditions the discipline of the college becomes a dignified appeal to worthy young men and women to maintain at all times the strictest fidelity of character. It should further be understood that the college is not required to grant certificates to students whose character is unsound.

Graduation Requirements

Degrees Offered. The college grants the undergraduate degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Science in Education, Bachelor of Science in Commercial Art, Bachelor of Science in Home Economics, Bachelor of Science in Industrial Arts, Bachelor of Science in Agriculture, Bachelor of Music Education, Bachelor of Business Administration, and the graduate degrees of Master of Arts and Master of Education.

The courses of study leading to graduation with the respective degrees are outlined in the section of the catalog captioned College Curricula on page 91. A candidate for graduation with an undergraduate degree must, however, be guided by the regulations and statements of policy that follow.

Residence. To qualify for graduation with a bachelor's degree a student must have been in residence in the college for at least two semesters of the regular session or 30 weeks in summer session, provided that he must have done in residence at least 30 hours of work (at least 24 hours thereof advanced) including 24 hours of the last 30 hours offered toward graduation.

Time Limit. A student who is a candidate for an undergraduate degree may graduate under the requirements for the respective degree set forth
in the catalogue in force during the session in which he first enrolled provided he graduates within six years from the end of the session. After expiration of such a period of time he may be held to meeting the requirements as outlined in the catalogue in force during the session in which he graduates.

**SEMESTER'S WORK LOAD:** Southwest Texas State College schedules classes six days a week, Monday through Saturday, in the belief that such a policy contributes to a high standard of work. The normal course load during the regular semester is 15 semester hours, exclusive of the physical education activity courses.

Students enrolling for a full course load of 15 semester hours must schedule classes over the six-day week. Students enrolling for classes meeting Monday through Friday inclusive will be restricted to four regular courses, plus the physical education activity course; and students enrolling for classes meeting on one series of class days only, that is Monday, Wednesday, and Friday or Tuesday, Thursday, and Saturday, will be restricted to three regular courses plus the physical education activity course.

The permissive maximum load for which a first-term freshman or an undergraduate student with an average grade of "C" on a minimum load of 15 hours in residence in the regular session immediately preceding one enrollment or on a minimum load of 12 hours in the summer session immediately preceding enrollment may enroll in any one semester of the regular session is 17 hours exclusive of a required course in physical education activities. However, permission to carry such a maximum load will be granted only provided, (a) that the schedule exhibits not more than five courses exclusive of the course in such activities or (b) that in the instance of a freshman or sophomore, the sixth course exclusive of the course in activities is a one-semester hour course or that in the instance of a junior or senior, the sixth course is a one-semester hour course or a two-semester hour course.

No student may enroll for more than 17 hours exclusive of a required course in physical education activities except with special permission of the Dean of the College or the appropriate member of the Registration Committee.

As the requirement for graduation with a bachelor's degree is 128 semester hours, a student's load should average 16 hours per semester.

Note: A student who, as a part of the last 30 semester hours of work that he offers toward graduation, enrolls for a course of freshman rank that falls in the field of his major or his minor or for any other course of freshman rank required of him for graduation will receive only two-thirds credit for such a course.

**Late Registration.** The total credit for students who enter late shall not exceed one semester hour for each week of attendance. This rule need not be applied to students who for adequate reasons enter not later
than the seventh calendar day of either semester of the regular session, or not later than the third calendar day of any term of less than a semester.

**Course Numbers.** The new numbering system, effective September, 1964, has four digits for each course, with the first digit indicating the level of the course (1 for freshman courses, 2 for sophomore courses, 3 for junior courses, 4 for senior courses, 5 for graduate courses), the second digit showing semester hour value of the course, and the last two digits reflecting the departmental sequence. Thus, English 2310 is a sophomore level course of three semester hour value.

In course descriptions the numbers shown in parenthesis after the four digit numbers are those previously used.

Courses represented by two numbers in series (e.g., Biology 1410, 1420) must be completed in their entirety before any part may be accepted towards a degree, unless the description of the course specifically makes exception to the contrary.

Numbers in parenthesis following a course title indicate the clock hours per week spent in lecture and laboratory respectively.

**Grade Symbols.** Semester grades of a student are determined by his daily oral and written work and by tests or quizzes, usually unannounced, given at intervals during the semester, by formal mid-semester quizzes, and by formal examinations given at the end of the semester. These grades are indicated by the following symbols: A, represents excellent work; B, good; C, fair; D, passing; F, failure; I, incomplete; and W, withdrawn. In case the work of any student is incomplete during any semester he must complete such work by the time of an indicated deadline or in the absence of such a deadline, during the first semester that he is again in attendance after the grade of "I" is received and not later than the end of the second semester following the one in which the incomplete grade was assessed. Otherwise, this incomplete grade may, at the discretion of the instructor, be changed to "F". In case of failure the student must take the entire work in class again.

The grade of "I" is assessed for a student in a course for one of two reasons only: (a) failure to take the final examination at the time regularly scheduled for the respective course in consequence of illness or other contingency beyond the control of the student; or (b) failure for a similar reason to hand in on scheduled time a major assignment in the course, e.g., theme or a notebook.

**Note:** The provisions attending the assessment of the grade of "I" do not apply to the thesis course in the graduate school, in which instance, credit in the course may be redeemed at any time prior to graduation.

A student dropping a course later than the close of the fourth week of a regular session or the second week of a half-term of the summer session receives the grade of "F" in the course, provided that at the time of dropping it he is adjudged by the instructor in the respective course to
be earning a grade of less than "C" in it; otherwise he receives the grade of "W" in the course being dropped irrespective of the time he drops it.

Repeating Courses. A student may repeat any course he desires. Should he receive any other grade than "W" as a result of repeating a course, this grade will have precedence over the original mark.

English Proficiency. Candidates for graduation are expected to have demonstrated proficiency in English usage acceptable to the faculty committee in charge of this requirement.

Quality Points. To earn any degree or certificate, a student must meet the following requirements:

1. He must earn a grade point average in his major (or first teaching field) of 1.25.
2. He must earn a grade point average of 1.00 (C) on all courses offered towards completion of a degree or certificate.
3. No more than 30 hours in "D" grades may be offered towards the degree or certificate.

To make an average grade of "C", quality points shall be divided by semester hours, and an index of 1.00 must be exhibited. In determining quality points the grade symbols have the following values:

- A — 3 quality points per semester hour
- B — 2 quality points per semester hour
- C — 1 quality point per semester hour
- D — 0 quality points per semester hour
- F — 0 quality points per semester hour

In case a student transfers to the Southwest Texas State College credit earned in another institution, he must not only make an average grade of "C" on the sum total of all courses that he offers for credit toward a certificate or degree or toward the major required for such degree, but also specifically on all courses thus offered as absolved in the Southwest Texas State College, provided that at least six hours of the advanced work included in the major must be done in residence.

Scholastic Honors. To earn a place on the honor roll at the close of any given term or semester a student must have earned a "B" average on a schedule of at least 12 semester hours of work, exclusive of the regular assignment in physical education, carried during the period of time in question.

To attain membership in Alpha Chi, national college-wide honor society, the student must as a basic requirement rank in the upper 10 per cent of the junior, senior, or graduating class which he belongs.

Absences. An accurate record of each freshman student's absences is kept by each of his instructors. Freshman absences are reported indi-
vidually upon the fourth absence and also for each subsequent absence. After the fourth or subsequent absence, the freshman (less than 27 hours) shall be barred from class by his instructor until a reinstatement has been presented by the student. These absences are reported to and reinstatements are issued by the Personnel Office.

All absences are recorded by faculty members in their offices so that the absence record of any undergraduate may be available when and if needed. However, no absences incurred by sophomores, juniors, or seniors are reported to the Personnel Office unless assistance is desired from an administrative office.

Negative Credit. Also, for each total of absences equal to the number of semester hours for which a student is enrolled during the semester or shorter term, the student will be assessed one semester hour of negative credit.

In the enforcement of this regulation an absence incurred by a student by virtue of membership in an institutionally sponsored organization, e.g., athletic, music, or forensic, or by virtue of an institutionally organized field trip attending his regular class work shall be deemed officially excused and shall not be included in the number to which the student is otherwise restricted. No student is, however, at any time excused from work missed in a given course in consequence of absence from class irrespective of the reason obtaining for such absence. He is on the final examination accountable for all work covered in a course.

National Teachers Examination. Effective September, 1965, all students applying for certificates are required to have taken the common portion of the National Teachers Examination as a condition of recommendation by the college for the certificate.
STANDARD OF WORK REQUIRED FOR CONTINUANCE IN THE COLLEGE

Classification. For the purpose of computing scholastic probation, the following classification will be used: A first-year student is one who has been in attendance at a college or university for a period of less than two semesters. A second-year student is one who has been in attendance at a college or university more than two and fewer than four semesters. A third-year student is one who has been in attendance at a college or university more than four and fewer than six semesters. All other students, exclusive of those registered in the graduate school, are classified as fourth year students. Attendance at a six-week summer term counts as one-half of a semester in this classification. Enrollment in any term or semester which is terminated by official withdrawal at any time during the semester shall not be counted in determining his status provided he is making "C" or better in all courses at the time of his withdrawal.

Note. In order that students may know their standing in their several courses, formal quizzes are given at the middle of each semester, and students who are then earning the grade of "D" or "F" in any course are given the notice to that effect.

A. Minimum Standard required during long-session semester.

1. First-year Students. A first-year student taking 12 or more semester hours must (1) pass at least nine semester hours and (2) earn nine quality points. A first-year student taking fewer than nine semester hours must (1) pass all hours taken and (2) earn as many quality points as hours undertaken.

2. Second-year Students. A second-year student taking 12 or more semester hours must (1) pass at least 12 semester hours and (2) earn 12 quality points. A second-year student taking fewer than 12 semester hours must (1) pass all hours taken and (2) earn as many quality points as hours undertaken.

3. Third-year Students. A third-year student taking 15 or more semester hours must (1) pass at least 15 semester hours and (2) earn 12 quality points. A third-year student taking fewer than 15 semester hours must (1) pass all hours taken and (2) earn 12 quality points. If this student takes 12 or fewer hours, he must earn as many quality points as hours undertaken.

4. Fourth-year Students. A fourth-year student taking 15 or more semester hours must (1) pass at least 15 semester hours and (2) earn 15 quality points. A fourth-year student taking fewer than 15 semester hours must (1) pass all hours taken and (2) earn as many quality points as hours undertaken.

Note. All courses of which credit may be earned, with the exception of directed teaching, shall be included when quality points are counted.
The number of quality points required shall be reduced in proportion to the number of semester hours devoted to directed teaching. For example, a student enrolled for 15 semester hours of which six are in directed teaching, shall be required to earn nine quality points.

Warning. Each student is responsible for knowing whether he has passed the minimum required work and whether he is eligible to continue in the college. An ineligible student who registers in the college shall be dropped by the Personnel Office, and the student shall not receive special consideration on his plea of lack of knowledge of his scholastic status.

B. Scholastic Probation and Suspension.

1. Long-session semesters:

a. To be placed on scholastic probation.

(1) A student who fails to achieve the minimum standard required for his classification (see A-1 above) at the end of a long-session semester will be placed on scholastic probation.

(2) Any student who cannot meet the required minimum for a given semester because he has received one or more incomplete I grades will be placed on scholastic probation temporarily.

(3) Any first-year student enrolled for fewer than nine semester hours and any second-year student or above enrolled for fewer than 12 semester hours who fails to pass all his work and earn as many quality points as hours undertaken will be placed on scholastic probation.

(4) Withdrawal while making failing grades. If a student not on scholastic probation withdraws from the college after the fourth week of classes of the fall or spring semester, and if at that time he is failing to meet the minimum standard required for his classification, he will be placed on scholastic probation.

(5) A new student may be admitted to the college on scholastic probation by the Director of Admissions.

b. To be placed on scholastic suspension.

(1) If at at the end of a long-session semester, during which a student has been on scholastic probation, he fails to achieve the minimum standard required for his classification, he shall be ineligible to register for the following long-semester or summer session.

(2) A student enrolled for 12 or more semester hours during a long session semester who passes fewer than six semester hours will be ineligible to register for the following long semester or summer session.
(3) Withdrawal while on scholastic probation. If a student who is on scholastic probation withdraws after the fourth week of classes of the fall or spring semester, and if at that time he is failing to meet the minimum standard required for his classification, he will be placed on scholastic suspension. Otherwise, he will be placed on continued scholastic probation.

c. To be removed from scholastic probation.
   (1) A student on scholastic probation who is enrolled for 12 or more semester hours will be removed from probation if he achieves the standard of work required of his classification.
   
   (2) A student on scholastic probation who enrolls for fewer than 12 semester hours and who passes all courses taken and earns as many quality points as hours undertaken will be continued on probation. However, when he has taken 12 semester hours or more, passed all courses taken, and earned as many quality points as hours undertaken, he will be removed from scholastic probation.

2. Summer Session:

a. To be placed on scholastic suspension. Any student enrolled for a 12 week summer session who fails all courses for which he enrolled will be placed on scholastic suspension.

b. To be removed from scholastic probation.
   (1) A first-year student on scholastic probation, enrolled for a full load* during a 12 week summer session, who passes 9 semester hours and earns 9 quality points will be removed from probation.
   
   (2) A second-year student, or above, on scholastic probation, enrolled for a full load* during a 12 week summer session, who passes 12 semester hours and earns 12 quality points will be removed from probation.

c. Registration for fewer than 12 weeks or less than a full class load.
   (1) A student who enrolls for six weeks or less will not have his scholastic standing altered regardless of the grades earned.
   
   (2) Students enrolled for less than a full load* may not be removed from probation as the result of summer work.

d. Effect of withdrawal on scholastic standing. If a student withdraws his scholastic standing will remain unchanged, except as in 2a above.

e. Scholastic Probation. A student who attend a 12 week summer session will not be placed on scholastic probation as a result of summer work.
3. Incomplete Grades:
If a student on scholastic probation fails to achieve the minimum standard required of his classification due to one or more incomplete (1) grades, he shall be placed on tentative suspension subject to a review by the Probations Committee. The committee will determine if the tentative suspension is to become an official suspension or if the student is to be continued on scholastic probation.

4. Length of Suspension:
A first suspension will be for the following long-session semester and any intervening summer session. A second suspension shall be for two long-session semesters and the intervening summer session. A third dismissal shall be for a minimum of four long-session semesters and the intervening summer sessions and re-admission to the college must be approved by the Probation Committee.

5. Probation on Re-entrance:
A student who has been suspended from the college for scholastic reasons will be on scholastic probation if he re-enters.

6. Effect of Suspension on Correspondence or Extension Courses:
The student may not enroll for correspondence or extension courses from this college while on suspension. These regulations do not prohibit a student, who has been placed on suspension, from registering at another institution. However, such academic work will not decrease the period of suspension and may lengthen the period of suspension if his work at another institution is at a level below that which this college requires of his classification.

*A full class load will ordinarily be 12 or more semester hours. However, under certain conditions 11 semester hours may be considered a full load.

CERTIFICATE REQUIREMENTS

Effective September 1, 1955

Teachers in Texas elementary and secondary schools are required by law to hold a valid Texas teacher's certificate for grade level, specialization area, or position to which they are assigned.

Any person who, prior to September 1, 1955, enrolled in a teacher education program leading to a bachelor's degree in an institution of higher learning approved for teacher education by the State Board of Education, may continue the program and obtain the type certificate to which the preparation entitled him when his college program was started. These certificates then may be converted to the certificate most comparable under the new certification program.

Any person enrolling for the first time, subsequent to September 1, 1955, in a program of teacher education at an institution of higher learning
approved for teacher education by the State Board of Education, may become eligible for either of two types of valid teacher's certificate's: the Provisional Certificate or the Professional Certificate. Each certificate will show on its face all the specialization areas in which the certificate holder has qualified at the time of issue. Both certificates are valid for life unless cancelled by lawful authority.

Provisional Certificate. To be eligible for the Provisional Certificate the applicant must meet the following requirements:

1. Hold a bachelor's degree from and be recommended by an institution of higher learning approved for teacher education by the State Board of Education.

2. For vocational trade and industrial or distributive education, three years of recent work experience in the occupational field designated on the face of the certificate.

3. For driver education designation, the following additional requirements shall be met.
   a. Hold a valid Texas driver's license.
   b. Have a safe driving record.
   c. Have a broad background of experience in driving.

4. Have completed one or more of the approved programs in the following areas of specialization:
   Elementary, grade 1-8 (includes kindergarten and grade 9 of junior high schools)
   Junior High, grades 6-10
   Special Subjects, all grades: art health and physical education, music, speech-drama.

Areas approved in the Minimum Foundation Program Act:
Librarian, Teachers of Exceptional Children (blind, physically handicapped, deaf, retarded, speech correction), Vocational Agriculture Education, Vocational Distributive Education, Vocational Home-making Education, Vocational Trade and Industrial Education.

(Driver education designations shall be in addition to one of the above teacher designations.)

5. Be of good moral character.

6. Be a citizen, or in the process of becoming a nationalized citizen, of the United States.

7. Believe in and uphold the Constitutions of the United States and the State of Texas.

8. Have completed in a Texas institution of higher learning, a course or courses in which the Constitution of the United States and of the State of Texas have been given special emphasis.
9. Have completed at least six semester hours in American history, or three semester hours of American history plus three semester hours of Texas history.

10. Pay an application fee of $2.00.

Approved programs leading to the Provisional Certificate are offered by the college in the following areas:

Elementary

Secondary Plan I

<table>
<thead>
<tr>
<th>Art</th>
<th>German</th>
<th>Music</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>Health and Physical Education</td>
<td>Physics</td>
</tr>
<tr>
<td>Business</td>
<td>History</td>
<td>Spanish</td>
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<tr>
<td>Chemistry</td>
<td>Industrial Arts</td>
<td>Speech</td>
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<tr>
<td>English</td>
<td>Journalism</td>
<td>Non-Vocational</td>
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<tr>
<td>French</td>
<td>Mathematics</td>
<td>Agriculture</td>
</tr>
</tbody>
</table>

Secondary Plan II

General Science  
Social Studies  
Music  
Industrial Arts

All-Level

| Art       | Music                          | Health and Physical Education |

Vocational Education

Agriculture  
Home Economics

Special Education

Orthopedically Handicapped  
Mentally Retarded  
Speech and Hearing Therapy

Driver Education

Professional Certificate. To be eligible for the Professional Certificate the applicant must meet the following requirements:

1. Have completed an approved program of at least 30 semester hours of graduate level work beyond the bachelor's degree requirements at an institution of higher learning approved for graduate teacher education by the State Board of Education.

2. Have had three years of teaching experience.

Students interested in pursuing a program leading to the Professional Certificate should consult with the Registrar in reference to the specific requirements as they effect them.

The certificate requirements are set forth in detail in Bulletin No. 573, 1955, issued by the Texas Education Agency. It sets forth certain
exceptions that obtain in the instance of the requirements for the Provisional Certificate to teach vocational trade and industrial courses and for a teacher's certificate valid in the specialization area of the school nurse.

Approved programs leading to the Professional Certificate are offered by the college in the following areas:

Elementary
Secondary Plan I
  Biology
  Business
  English
  Health and Physical Education
  History
All-Level
  Health and Physical Education
Vocational Education
  Agriculture
  Home Economics
Special Education
  Mentally Retarded
  Speech and Hearing Therapy
Principal
  Elementary
  Secondary
Supervisor

Note: Students enrolling in college for the first time after September 1, 1962, will be expected to complete the certificate program as outlined in the catalogue under which they enroll.

THE COLLEGE CURRICULA

It should be recognized that any college which has for its major purpose the professional education of teachers on all levels, should have clearly defined aims and purposes to control and limit its offerings. Although the Southwest Texas State College has for its primary aim, the preparation of teachers, and its administrative organization and curricula have been designed with the needs of the profession of teaching in mind, it has become necessary that this college serve persons other than those preparing to teach. Consequently, it has organized curricula designed (a) to lead to baccalaureate degrees intended for those who do not intend to teach and (b) to give pre-professional training for the various professions.

In general, each curriculum emphasizes first, a cultural background which includes courses in the major fields of human knowledge, these
designed to give a general cultural background during and after which specialized preparation is begun; second, specialized fields, usually termed majors and minors in which the student selects an area of subject matter in which he has a particular interest or aptitude.

**Cultural Background.** All persons should be familiar with the nature of present-day society in order that they may be prepared to analyze and solve contemporary problems. A person, to be able to solve the recurring problems of everyday life, should have an appreciation and understanding of the broad field of human knowledge which we usually classify as the humanities, the social sciences, the pure sciences, and the arts. Approximately one-half of the courses pursued are taken in these four large areas. In addition, the person who is a candidate for a teaching certificate must include in his program certain courses designed to give understanding of the problems of childhood and youth. It is the belief of the college staff that the student should have this background to assure to him that depth and breadth of information needed for perspective and good judgment.

These basic courses, required of all students, are so arranged that specialization is cumulative and progressive, insuring greater unity in any curriculum chosen. Since the aim of courses commonly known as cultural background are designed to give better understanding of the problems of contemporary life, the student, after such study, is able to decide which areas have the greatest appeal to him for intensified study, and which profession or vocation he should follow.

**Specialized Fields.** All college policies governing the academic preparation of professional workers require that a thorough command of subject matter be attained in the field or fields chosen as their major and minors. Particularly important is it that the teacher's knowledge be comprehensive and thorough. Superior scholarship must be one of the primary considerations.

In the strictly professional areas and in the pre-professional courses specialization is dominated by the requirements of the profession which the student chooses to follow. To satisfy the requirements for a major, the student must complete from 24 to 32 semester hours of work in the field of his choice. The student, in order to gain the most, should be careful and purposeful in the selection of majors and minors and of courses in order that the needs and requirements of the profession he expects eventually to follow will be met.

**GRADUATION REQUIREMENTS IN ACADEMIC FOUNDATIONS**

All candidates for graduation with the bachelor's degree are required to offer toward graduation approximately two years of work in Academic Foundations—courses affording "common backgrounds and foundations of our social and cultural heritage"—distributed as follows:
I. SOCIAL SCIENCES, 12 semester hours:
   History 1310, 1320. History of America. (3-0) Credit, 3 hours each.
   Government 2310, 2320. American Government. (3-0) Credit, 3 hours each.

II. HUMANITIES, 10 semester hours:
   A. Literature, 6 semester hours:
      English 2310, 2320. Sophomore Literature. (3-0) Credit, 3 hours each; or
      English 2330, 2340. World Literature. (3-0) Credit 3 hours each; or
      English 2370, 2380. Masterpieces. (3-0) Credit, 3 hours each.
   B. The Arts, 2 semester hours:
      Humanities 3213. Interrelationship of the Arts I. (2-2) Credit, 2 hours. The purpose of this course is to introduce students to representative achievements in the visual arts, music, and drama; to teach them what to look for in such humanistic works; to enable them to analyze and to appreciate the interrelationship of the individual works they examine and to make intelligent and sensitive judgments concerning them.
   C. Philosophy or Religion or Bible, 2 semester hours:
      Humanities 3201. Philosophies Men Live By. (2-0) Credit, 2 hours. In this course the great philosophical concepts which through the years have challenged the best thoughts of men and have contributed to the fulfillment of the good life will be examined. Emphasis will be placed upon the applicability of those concepts to human life in our times and to the development of intellectual perspective; or
      Any course in Religion or Bible offered by a Bible Chair with the endorsement of the college.

III. SCIENCE, MATHEMATICS, FOREIGN LANGUAGE, at least 12 hours from two of these fields.

IV. COMMUNICATIONS, 9 semester hours:
   English, 1310, 1320. Reading and Writing. (3-0) Credit, 3 each.
   Speech 1310. Fundamentals of Speech. (3-0) Credit, 3 hours.

V. HEALTH AND PHYSICAL WELL-BEING, 4 semester hours.

VI. OTHER COURSES, to make the required amount, selected from the arts, sciences, humanities, fine arts, or electives as permitted in the several curricula.
Additional courses in Humanities:

**Humanities 4202. Great Movements of Thought. (2-0) Credit, 2 hours.** In this course great movements of thought will be examined which have taken the form of religious, scientific, or philosophical statements. Emphasis will be given to those ideals that prevail in our times and our world today more than to purely historical systems. There will be strong emphasis on value judgments and the development of a personal philosophy which will best serve the individual's needs in the contemporary world.

Prerequisite: Humanities 3201 with a grade of A or B and approval of the instructor.

**Humanities 4215. The Interrelationships of the Arts II. (2-2) Credit, 2 hours.** The purpose of this course is to provide the student with opportunities to experiment in the visual arts, music, and drama so that he may recognize the creative process in himself and develop the ability to make intelligent and sensitive judgment of the humanistic work found in these arts.

**Humanities 4217. Contemporary Living. (2-2) Credit 2 hours.** This course is an integration of the practical arts: art, home economics, and industrial arts. It is developed around the facets of the home, and is designed to develop the practical aspects of one's general education.

Six semester hours in one subject will be allowed towards academic foundations with the exceptions noted below. Following is the maximum number of hours in the various subjects:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>6</td>
<td>History 1310, 1320</td>
<td>6</td>
</tr>
<tr>
<td>Bible and Religion</td>
<td>6</td>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td>Biology</td>
<td>8</td>
<td>Mathematics</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry</td>
<td>8</td>
<td>Music</td>
<td>6</td>
</tr>
<tr>
<td>Economics</td>
<td>6</td>
<td>Physics</td>
<td>8</td>
</tr>
<tr>
<td>English</td>
<td>12</td>
<td>Physical</td>
<td></td>
</tr>
<tr>
<td>French</td>
<td>8</td>
<td>Education</td>
<td>4</td>
</tr>
<tr>
<td>General Science</td>
<td>6</td>
<td>Sociology</td>
<td>6</td>
</tr>
<tr>
<td>Geography</td>
<td>6</td>
<td>Spanish</td>
<td>8</td>
</tr>
<tr>
<td>German</td>
<td>8</td>
<td>Speech</td>
<td>6</td>
</tr>
<tr>
<td>Government</td>
<td>6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The following subjects are not interpreted as being included in Academic Foundations: agriculture, air science, business administration, education, home economics, industrial arts, journalism, speech (corrective).
EXPERIMENTAL HONORS PROGRAM

The Experimental Honors Program has been introduced into the curriculum for the benefit of the more capable students. The two purposes constituting the basis of the program are, first, to improve instruction for superior students and, second, to make it possible for superior students to graduate in less than the usual time requirement. The first purpose is implemented annually by the selection of a limited number of superior students who are assigned to special class sections where more advanced work is done and more independence on the part of students is encouraged.

The second purpose is achieved by Advanced Standing Examinations for credit which will permit the student, by passing an examination with an established minimum mark, to receive full academic credit for the course covered by the examination. Regulations governing this part of the program provide (1) that not more than six semester hours of credit may be earned through examinations in one department nor more than 15 semester hours in all departments, (2) that each department of the college will determine the courses in that department in which examinations will be given, (3) that a non-refundable fee of $5.00 will be charged for each permit to take an examination and (4) that similar credit earned on other accredited institutions will be honored for transfer provided the transferring student validates the credit locally by the completion of one higher level course in the same department with a minimum mark of "C" or by the completion of an examination under local supervision of the course or courses with maximum satisfactory grades as established by the department.

CURRICULUM FOR ELEMENTARY TEACHERS LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION

Two plans for the preparation of elementary teachers are available with the only difference in them being the selection of two specializations (minors) under Plan I or one specialization and a 12 hour combination under Plan II. Otherwise the student is responsible for meeting similar requirements in academic foundations, professional education, and institutional courses.

Notes:

1. One hundred twenty-eight hours are required with at least 40 hours advanced.

2. Thirty-six hours in the specialization area are required from either Plan I or Plan II. Electives must be chosen so as to meet, in combination with the specializations selected, the academic foundation requirement (pp. 92-94) of at least 12 hours from two of
the areas of science, mathematics, and foreign language.

3. A student looking forward to doing graduate work would do well to plan his specialization and electives to that end. Usually a minimum of 24 hours is required as a prerequisite to graduate courses. Thus if expecting to do graduate work in English, the student should choose the more intensive specialization of Plan II; if expected to do graduate work in Education, he could choose electives in that field to total 24 hours.

4. If there is a probability of teaching in a departmentalized junior high school, the student should also elect Plan II.

5. The student desiring to teach in another state in which 24 hours of education are required for certification, might also wish to choose electives to meet this requirement.

6. Speech 1310 and Mathematics 1310 should usually be taken as a pair in alternate semesters, in either order; Art 1313 and Music 1311 similarly. Either pair might be postponed until the sophomore year.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1310, 1320</td>
<td>6</td>
<td>English 2330, 2340</td>
<td>6</td>
</tr>
<tr>
<td>History 1310, 1320</td>
<td>6</td>
<td>Government 2310, 2320</td>
<td>6</td>
</tr>
<tr>
<td>Specializations (minors)</td>
<td>6-9</td>
<td>Specializations (minors)</td>
<td>9-12</td>
</tr>
<tr>
<td>Speech 1310</td>
<td>3</td>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td>Mathematics 1310</td>
<td>3</td>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>Art 1313</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music 1311</td>
<td>3</td>
<td></td>
<td>29-32</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
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<td></td>
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<tr>
<td></td>
<td></td>
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<td>32-35</td>
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</table>

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Hours</th>
<th>Senior Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specializations (minors)</td>
<td>9</td>
<td>Specializations (minors)</td>
<td>9</td>
</tr>
<tr>
<td>General Science 3310, 3320</td>
<td>6</td>
<td>Education 4323, 4324, 4680</td>
<td>12</td>
</tr>
<tr>
<td>English 3385</td>
<td>3</td>
<td>Mathematics 4302</td>
<td>3</td>
</tr>
<tr>
<td>Art 3323</td>
<td>3</td>
<td>Health Education 3375</td>
<td>3</td>
</tr>
<tr>
<td>Education 3311, 3320</td>
<td>6</td>
<td>Electives</td>
<td>3-6</td>
</tr>
<tr>
<td>Humanities 3201</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(or Bible), 3213</td>
<td>4</td>
<td></td>
<td>30-33</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>
PLAN I

A. Choose one subject for specialization from this group:

1. Art 1313 (or 1314), 1321, 2363 (or 2354), 3321, 3327, 4383,
2. Biology 1410, 1420 (or 2340, 2350); General Science 3310, 3320; Biology 3350, 4305.
3. English 1310, 1320, 2330, 2340, 3317 (or 3319), 3333 (or 3335).
4. Geography 1310, 3303, 3307, 3308, 3309, 3327.
5. Physical Education (women): 1315, four activity courses, and eleven hours of advanced courses to be prescribed by the department.
6. Physical Education (men): 1341, 1342, 2354, 3313, 3324 and four hours of activities.
7. History 1310, 1320, 2310, 2320, 3347, 3320 (or one advanced course).
8. Mathematics 1310, 1315, 1317, 2363 and two advanced courses.
9. Music 1102, 3207, 3237, 3239, 3340 and one advanced course; ensemble or applied music, 3 hours; (or) 4351, 4353; distribution of work to be made according to individual's background and needs.
10. Spanish 1420, 2310, 2320 and three advanced courses.
11. Speech 1310 (or 1320), 1350, 3315, 3370, 4373 (Corrective), 4385 (Corrective).

B. Choose also one group in which courses do not overlap any in part A:

1. Language Arts: English 3317, 3319, 3333, (or 3335); Speech 3315, 3370, 4373 (Corrective).
2. Science and Mathematics: Mathematics 1315, 1317; Biology 1410, 1420, 3350, 4305.
3. Social Studies: Geography 1310, 3308, 3309; Sociology 2310; and two courses from History 3347, 3320, or other advanced courses.
4. Fine Arts: three music courses and three art courses.
5. Crafts: Art 2363, 3327, 3337, 4365; Industrial Arts 1350, 3386.
6. Health and Home Economics: three health education courses and three home economics courses.

PLAN II

A. Choose one specialization of 24 hours:

1. Art 1313 (or 1314), 1321, 2354, 2363 (or 2359), 3310, 3321, 3327, 4383.
2. Biology 1410, 1420, 2340, 2350 (or 3490, 3340); General Science 3310, 3320; Biology 3350, 4305 (or 4310, 4320).
3. English 1310, 1320, 2330, 2340, 3317 (or 3319), 3333 (or 3335) and two advanced courses.
4. History 1310, 1320, 2310, 2320, 3347, 3320 and two advanced courses.
5. Mathematics 1310, 1315, 1317, 2363, 2371, 2372, 3315, and one advanced course.
6. Music 1312, 2361, 2362, 3207, 3237, 3239, 3340 and one advanced course; ensembler and applied music, three hours (or 4351, 4353); work to be distributed to fit individual's background and needs.
7. Physical Education (women): 1315, four activity courses, and 16 hours of advanced courses to be prescribed by the department.
8. Spanish 1410, 1420, 2310, 2320 and four advanced courses.
9. Speech 1310 (or 1320), 1350, 2310, 3315, 3370, 4373 (Corrective), 4387 (Corrective).

B. Choose also four courses not included in the above specialization:
   Geography 1310, 3308; Sociology 2310; English 3317, 3319; Speech 3370; Speech (Corrective) 4373, 4385; and Industrial Arts 3386.

CURRICULUM FOR SPEECH AND HEARING THERAPISTS
LEADING TO THE DEGREE OF BACHELOR OF SCIENCE
IN EDUCATION
(128 hours; includes dual certification for classroom teaching)

Notes:

1. One hundred twenty-eight hours are required with at least 40 advanced.
2. To complete his academic specialization the student will select 12 hours from Part B of the Elementary Plan II, with no overlapping in course work.
3. The required academic specialization totals 48 hours including 24 hours in Speech and Hearing (Corrective), 12 hours from Part B of the Elementary Plan II, and English 3385, Art 3323, Mathematics 4302 and Health Education 3375.
4. Speech (Corrective) courses are listed under the Speech Department.
5. On completion of the course of study as outlined the student will be entitled to receive a provisional certificate in the area of Speech Correction and also a provisional certificate to teach in the elementary schools of the state (grade 1-8), in kindergarten and in grade 9 of the junior high schools provided (a) that the directed teaching required for certification must be
done in the elementary grades in an area or areas other than Speech Correction and (b) that the students meet also the legal provisions for certification.

<table>
<thead>
<tr>
<th></th>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speech (Corrective)</td>
<td>1331</td>
<td>3</td>
<td>Speech (Corrective)</td>
<td>2359,</td>
</tr>
<tr>
<td>Speech 1310 or 1320</td>
<td>3</td>
<td>2361</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>English 1310, 1320</td>
<td>6</td>
<td>From Plan II (Elementary)</td>
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<td></td>
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<tr>
<td>History 1310, 1320</td>
<td>6</td>
<td>Government 2310, 2320</td>
<td>6</td>
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<tr>
<td>Art 1313</td>
<td>3</td>
<td>English 2330, 2340</td>
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<tr>
<td>Mathematics 1310</td>
<td>3</td>
<td>Physical Education</td>
<td>2</td>
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<tr>
<td>Music 1311</td>
<td>3</td>
<td>Electives</td>
<td>6</td>
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</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
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</tr>
<tr>
<td>Electives</td>
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<td>6</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>32</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Junior Year</th>
<th>Hours</th>
<th>Senior Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speech (Corrective)</td>
<td>3325, 3367, 3389</td>
<td>9</td>
<td>Speech (Corrective)</td>
<td>4367,</td>
</tr>
<tr>
<td>From Plan II (Elementary)</td>
<td>6</td>
<td>Education 4323, 4324, 4680</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Education 3311, 3320</td>
<td>6</td>
<td>Mathematics 4302</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Science 3310, 3320</td>
<td>6</td>
<td>Health Education 3375</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Education 3380</td>
<td>3</td>
<td>English 3385</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities 3201 (or Bible), 3213</td>
<td>4</td>
<td>Electives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>34</td>
<td></td>
</tr>
</tbody>
</table>

Note:

Students desiring certification for speech and hearing therapy only, and not for classroom teaching, may omit the courses in specialization for elementary teaching, and for Education 4680, substitute Education 4385-4386. They should, however, complete 9 hours in courses dealing with psychology, such as Education 2310, 3311 and 4315. The minor for such candidates will be decided on an individual basis.

CURRICULUM FOR SECONDARY SCHOOL TEACHERS LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION

(128 semester hours with 40 advanced)

Freshman year: English 1310, 1320; History 1310, 1320; Speech 1310; 14 semester hours selected from two of these areas: science, mathematics, foreign language; physical education activities, two semester hours; and other subjects to total 32-34 semester hours for the year.
Sophomore year: English 2310, 2320 or 2330, 2340 or 2370, 2380; Government 2310, 2320; major (first teaching field) and minor (second teaching field) courses as required; science, mathematics, or foreign language requirements not completed; physical education activities, two semester hours; other subjects to total 32-34 semester hours.

Junior year: Major (first teaching field) and minor (second teaching field) as required; Humanities 3201 (or Bible), 3213; Education, six semester hours; other subjects to total 32 semester hours.

Senior year: Major (first teaching field) and minor (second teaching field) courses as required; Education, 12 semester hours advanced, including 4681; elective courses to total 128 semester hours required for graduation.

The courses making up the teaching minor (second field) may be selected from any of the following fields: art, biology, business administration, chemistry, English, German, French, journalism, mathematics, music, physical education, physics, social science, Spanish, speech.

The courses making up the teaching minor (second field) may be selected from any of the fields authorized for a teaching major or in agriculture, history, home economics, or industrial arts.

Majors and minors should be selected during the sophomore year with the advise of the head of the department in which the student elects to major, subject to final approval by the Dean of the College.

The above curriculum meets requirements, effective for students entering in September, 1962 and thereafter, for secondary school certification known as Plan I, wherein the student qualifies for two teaching fields. Plan II, a composite arrangement involving several areas, is offered by some departments. Certification is in one field only. To understand the difference students should consult with department heads, the Registrar, or the Dean of the College, or study closely the departmental offerings in the catalogue.

Plan III is preparation for teaching in one subject only with the following departments eligible: agriculture, business administration, home economics, industrial arts, music. Information is available from department heads on Plan III, which in most cases will carry a different degree from the Bachelor of Science in Education.

**CURRICULUM FOR THE BACHELOR OF ARTS DEGREE**

(128 semester hours with 40 advanced)

Freshman year: English 1310, 1320; History 1310, 1320; Speech 1310; Mathematics 1310; Biology 1410, 1420; physical education activities, two semester hours; and other subjects to total 32-34 semester hours for the year.
Sophomore year: English 2310, 2320 or 2330, 2340 or 2370, 2380; Government 2310, 2320; Chemistry of Physics 1410, 1420; foreign language, two courses; physical education activities, two semester hours; and other subjects to total 32-34 semester hours for the year.

Junior year: Major and minor courses as required; foreign language, two courses; Humanities 3201 (or Bible), 3213; and other courses to total 32 hours.

Senior year: Major, minor, and elective courses to make the total of 128 semester hours required for graduation.

Majors and minors may be selected from art, business administration, economics, English, French, geography, German, government, history, journalism, mathematics, music, health and physical education (as a teaching major) sociology, Spanish, speech. Industrial arts may be used as a minor.

Students seeking a certificate with this degree must meet all requirements for certification.

CURRICULUM FOR THE BACHELOR OF SCIENCE DEGREE
(128 semester hours with 40 advanced)

Majors and minors may be selected from biology, chemistry, physics, and mathematics.

Freshman year: English 1310, 1320; History 1310, 1320; Speech 1310; Mathematics 1310; Biology 1410, 1420; physical education activities, two semester hours; and other subjects (see catalogue requirements for the major and minor) to total 32-34 semester hours.

Sophomore year: English 2310, 2320 or 2330, 2340 or 2370, 2380; Government 2310, 2320; Chemistry or Physics 1410, 1420; foreign language, two courses; physical education activities, two semester hours; and other subjects to total 32-34 semester hours.

Junior year: Major and minor courses as required; Humanities 3201 (or Bible), 3213; and other courses to total 32 semester hours.

Senior year: Major, minor, and elective courses to make the total of 128 semester hours required for graduation.

Students seeking a certificate with this degree must meet all requirements for certification.

CURRICULA LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN HOME ECONOMICS

There are three curricula leading to the degree of Bachelor of Science in Home Economics, namely:

(1) Plan III (Designation of Texas Education Agency), the teacher education curriculum which qualifies one of the Provisional Homemaking Certificate, coded 164, the certificate needed to
teach in a vocational homemaking program in Texas. See page 190 for schedule plan of courses.

(2) Plan I (Designation of Texas Education Agency), the teacher education which qualifies one for the Special Home Economics Certificate, coded 204, the certificate which can be used only in homemaking programs that are non-vocational. A second teaching field is required, and a second certificate would be awarded in that field. See page 191 for schedule plan of courses.

(3) The curriculum of General Home Economics designed for those who do not want a certificate of any kind. See page 192 for further clarification and schedule outline of courses.

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN INDUSTRIAL ARTS
(128 semester hours; includes certificate)

Notes:

1. This is Plan III of the Texas Education Agency with certification in industrial arts only, in which area 48 hours are required.

2. No minor is required.

3. Fourteen hours minimum are required in two of the following: science, mathematics, foreign language.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial Arts 1313, 1320, 1330, 1350</td>
<td>12</td>
<td>Industrial Arts 2310, 2320, 2330, 2370</td>
<td>12</td>
</tr>
<tr>
<td>English 1310, 1320</td>
<td>6</td>
<td>English (literature)</td>
<td>6</td>
</tr>
<tr>
<td>History 1310, 1320</td>
<td>6</td>
<td>Government 2310, 2320</td>
<td>6</td>
</tr>
<tr>
<td>Science, Mathematics, or Foreign Language</td>
<td>6-8</td>
<td>Science, Mathematics, or Foreign Language</td>
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</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
<td>Speech 1310</td>
<td>3</td>
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</table>

32-34

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Hours</th>
<th>Senior Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial Arts 2365, 3370, 3385, and 3 hours advanced</td>
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<td>Industrial Arts 4381, 4384, and 6 hours advanced</td>
<td>12</td>
</tr>
<tr>
<td>Education</td>
<td>6</td>
<td>Education, including 4681</td>
<td>12</td>
</tr>
<tr>
<td>Humanities 3201, (or Bible), 3213</td>
<td>4</td>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>8</td>
<td></td>
<td></td>
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<td></td>
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<td>30</td>
</tr>
</tbody>
</table>

30
### GENERAL INDUSTRIAL ARTS PROGRAM

Notes:

1. Major requirements is 48 semester hours.
2. No minor is required.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial Arts 1313, 1320, 1330, 2320</td>
<td>12</td>
<td>Industrial Arts 2310, 2330, 2365, 2370</td>
<td>12</td>
</tr>
<tr>
<td>English 1310, 1320</td>
<td>6</td>
<td>English (literature)</td>
<td>6</td>
</tr>
<tr>
<td>History 1310, 1320</td>
<td>6</td>
<td>Government 2310, 2320</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1310</td>
<td>3</td>
<td>Science</td>
<td>8</td>
</tr>
<tr>
<td>Speech 1310</td>
<td>3</td>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td>32</td>
<td><strong>Total</strong></td>
<td>34</td>
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<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Hours</th>
<th>Senior Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial Arts, advanced</td>
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<td>Industrial Arts, advanced</td>
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</tr>
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<td>Mathematics 1313 or 1315</td>
<td>3</td>
<td>Economics 3313</td>
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</tr>
<tr>
<td>Science</td>
<td>8</td>
<td>Geography</td>
<td>3</td>
</tr>
<tr>
<td>Humanities 3201 (or Bible)</td>
<td>2</td>
<td>Humanities 3213</td>
<td>2</td>
</tr>
<tr>
<td>Economics 2310</td>
<td>3</td>
<td>Art 3327</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
<td>Electives</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>32</td>
<td><strong>Total</strong></td>
<td>30</td>
</tr>
</tbody>
</table>

### CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE

Notes:

1. This is the Teacher Education Program.
2. Fifty-four hours in technical agriculture must be completed.
3. The secondary provisional certificate may be obtained by completing requirements for a second teaching field. Biology is strongly recommended.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1313, 1333, 1345</td>
<td>9</td>
<td>Agriculture 2367, 2473, 2379, 2383</td>
<td>13</td>
</tr>
<tr>
<td>English 1310, 1320</td>
<td>6</td>
<td>English 2370, 2380</td>
<td>6</td>
</tr>
<tr>
<td>History 1310, 1320</td>
<td>6</td>
<td>Government 2310, 2320</td>
<td>6</td>
</tr>
<tr>
<td>Biology 1410, 1420</td>
<td>8</td>
<td>Chemistry 1410, 1420</td>
<td>8</td>
</tr>
<tr>
<td>Speech 1310</td>
<td>3</td>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>34</td>
<td><strong>Total</strong></td>
<td>35</td>
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</table>
### CURRICULUM

#### Junior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 3317, 3351, 3425, 3326, 3454</td>
<td>17</td>
</tr>
<tr>
<td>Mathematics 1310</td>
<td>3</td>
</tr>
<tr>
<td>Biology 3340, 3350</td>
<td>6</td>
</tr>
<tr>
<td>Science elective</td>
<td>3</td>
</tr>
<tr>
<td>Education</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>35</strong></td>
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</tbody>
</table>

#### Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 3311, 4114, or 4115</td>
<td>4</td>
</tr>
<tr>
<td>Agriculture electives, including one plant science and one animal science</td>
<td>12</td>
</tr>
<tr>
<td>Humanities 3201, (or Bible), 3213</td>
<td>4</td>
</tr>
<tr>
<td>Agriculture Education</td>
<td>6</td>
</tr>
<tr>
<td>Agriculture Education 4681</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

### GENERAL AGRICULTURE

**(128 semester hours)**

#### Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1313, 1333, 1345</td>
<td>9</td>
</tr>
<tr>
<td>English 1310, 1320</td>
<td>6</td>
</tr>
<tr>
<td>History 1310, 1320</td>
<td>6</td>
</tr>
<tr>
<td>Biology 1410, 1420</td>
<td>8</td>
</tr>
<tr>
<td>Speech 1310</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

#### Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 2367, 2383 and elective</td>
<td>9</td>
</tr>
<tr>
<td>English 2370, 2380 (recommended)</td>
<td>6</td>
</tr>
<tr>
<td>Government 2310, 2320</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry 1410, 1420</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1310</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

#### Junior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 3317, 3351, 3425, 3326</td>
<td>13</td>
</tr>
<tr>
<td>Biology 3340, 3350</td>
<td>6</td>
</tr>
<tr>
<td>Humanities 3201, (or Bible), 3213</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
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#### Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 3454, 4114, or 4115</td>
<td>5</td>
</tr>
<tr>
<td>Electives, at least 12 advanced</td>
<td>25</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tbody>
</table>
CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF MUSIC EDUCATION

(128 hours; includes certificate)

Teaching Education Program

Notes:

1. The music major requires 48 semester hours as a minimum.
2. No minor is required.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester I</td>
<td></td>
<td>Semester I</td>
<td></td>
</tr>
<tr>
<td>Music 1101</td>
<td>1</td>
<td>Music 2361</td>
<td>3</td>
</tr>
<tr>
<td>Music 1311</td>
<td>3</td>
<td>Music, primary area</td>
<td>1</td>
</tr>
<tr>
<td>Music, primary area (piano, voice or instrument)</td>
<td>1</td>
<td>Music, secondary area</td>
<td>1</td>
</tr>
<tr>
<td>Music, secondary area</td>
<td>1</td>
<td>Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>Ensemble</td>
<td>1</td>
<td>Speech 1310</td>
<td>3</td>
</tr>
<tr>
<td>English 1310</td>
<td>3</td>
<td>Mathematics, Science or Foreign Language</td>
<td>3-4</td>
</tr>
<tr>
<td>History 1310</td>
<td>3</td>
<td>Foreign Language</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics, Science or Foreign Language</td>
<td>3-4</td>
<td>Physical Education</td>
<td>16-17</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
<td>17-18</td>
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<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester II</td>
<td></td>
</tr>
<tr>
<td>Music 1102</td>
<td>1</td>
</tr>
<tr>
<td>Music 1312</td>
<td>3</td>
</tr>
<tr>
<td>Music, primary area</td>
<td>1</td>
</tr>
<tr>
<td>Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>English 1320</td>
<td>3</td>
</tr>
<tr>
<td>History 1320</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics, Science or Foreign Language</td>
<td>3-4</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
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</tbody>
</table>

16-17
### Junior Year

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Hours</th>
<th>Senior Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 3231</td>
<td>2</td>
<td>Music 3340</td>
<td>3</td>
</tr>
<tr>
<td>Music 3237</td>
<td>2</td>
<td>or 3353</td>
<td></td>
</tr>
<tr>
<td>Music 3207</td>
<td>2</td>
<td>Music, primary area</td>
<td>1</td>
</tr>
<tr>
<td>Music, primary area</td>
<td>1</td>
<td>Music, secondary area</td>
<td>1</td>
</tr>
<tr>
<td>Music, secondary area</td>
<td>1</td>
<td>Music, advanced</td>
<td>3</td>
</tr>
<tr>
<td>Ensemble</td>
<td>0</td>
<td>Education</td>
<td>3</td>
</tr>
<tr>
<td>Education</td>
<td>3</td>
<td>Electives</td>
<td>4</td>
</tr>
<tr>
<td>Government 2310</td>
<td>3</td>
<td>Ensemble</td>
<td>0</td>
</tr>
<tr>
<td>Humanities 3213</td>
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</table>

**Total:** 16

<table>
<thead>
<tr>
<th>Semester II</th>
<th>Hours</th>
<th>Senior Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 3217, 3227</td>
<td>2</td>
<td>Music, primary area</td>
<td>1</td>
</tr>
<tr>
<td>Music, advanced</td>
<td>2</td>
<td>Ensemble</td>
<td>0</td>
</tr>
<tr>
<td>Music, primary area</td>
<td>1</td>
<td>Music, advanced</td>
<td>2</td>
</tr>
<tr>
<td>Ensemble</td>
<td>0</td>
<td>Education, including 4681</td>
<td>9</td>
</tr>
<tr>
<td>Education</td>
<td>3</td>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td>Government 2320</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities 3201</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(or Bible)</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total:** 17

Six hours of electives in music are permissive.

Of the 128 semester hours of work required for graduation, 40 hours must be advanced.

For all-level certification, that is, to teach music in all 12 grades of the public schools of Texas, the student is required at the time of his graduation with a major in music to be able to exhibit credit earned in Music 3340, in one course in Elementary Education (Education 3311, The Elementary Learner: His Growth and Development, unless given permission to substitute another course for it), and in Education 4380, Directed Teaching (Elementary).

A teaching minor may be had with the advise of the Chairman of the Department of Music.
CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION
(128 semester hours)

Notes:

1. Major is 42 semester hours; a minor is not required.
2. Students who do not have credit for two semesters of type-writing in high school will be required to offer credit in Business Administration 1323 as part of their graduation requirements. Such students should enroll for Business Administration 1323 in the freshman year and defer Speech 1310 until the sophomore year.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Administration 1321 or 1331, 1332 or 1343</td>
<td>3-6</td>
<td>Business Administration 2461, 2462</td>
<td>8</td>
</tr>
<tr>
<td>English 1310, 1320</td>
<td>6</td>
<td>Business Administration or elective</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>8</td>
<td>English (literature)</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1310, 1313</td>
<td>6</td>
<td>Government 2310, 2320</td>
<td>6</td>
</tr>
<tr>
<td>History 1310, 1320</td>
<td>6</td>
<td>Education 2310</td>
<td>3</td>
</tr>
<tr>
<td>Speech 1310</td>
<td>3</td>
<td>Economics 2310, 2320</td>
<td>6</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>34</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th>Hours</th>
<th>Senior Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Administration 3343, 3361, 3362</td>
<td>9</td>
<td>Business Administration 3333</td>
<td>3</td>
</tr>
<tr>
<td>Business Administration (at least 3 hours advanced)</td>
<td>6</td>
<td>Business Administration, advanced</td>
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</tr>
<tr>
<td>Economics 3311, or 3312</td>
<td>3</td>
<td>Electives, including Academic Foundation courses</td>
<td>13</td>
</tr>
<tr>
<td>Humanities 3201 (or Bible), 3213</td>
<td>4</td>
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</tr>
<tr>
<td>Electives</td>
<td>10</td>
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</tr>
<tr>
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<td></td>
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<td>28</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td></td>
<td></td>
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</tbody>
</table>

The student is expected to choose advanced business administration courses with the advice and approval of the Head of the Department of Business Administration.

Of the work that the student will be expected to complete during the junior and senior years as a part of 128 hours required for graduation, 40 hours must be advanced.
CURRICULUM LEADING TO THE DEGREE OF
BACHELOR OF SCIENCE IN COMMERCIAL ART
(128 hours)

Notes:

1. Completion of a minor field will be strongly encouraged.
2. The use of electives should be decided only after a conference with the departmental chairman.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 1310, 1314, 1321</td>
<td>9</td>
<td>Art 2354, 2359, 2266</td>
<td>8</td>
</tr>
<tr>
<td>Industrial Arts 1313</td>
<td>3</td>
<td>Industrial Arts 1350</td>
<td>3</td>
</tr>
<tr>
<td>English 1310, 1320</td>
<td>6</td>
<td>English (literature)</td>
<td>6</td>
</tr>
<tr>
<td>History 1310, 1320</td>
<td>6</td>
<td>Government 2310, 2320</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1310</td>
<td>3</td>
<td>Science</td>
<td>8</td>
</tr>
<tr>
<td>Speech 1310</td>
<td>3</td>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Hours</th>
<th>Senior Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 3310, 3321, 4370</td>
<td>9</td>
<td>Art 4383, 4321 and</td>
<td>12</td>
</tr>
<tr>
<td>Industrial Arts 2365, 3350</td>
<td>6</td>
<td>6 hours advanced</td>
<td></td>
</tr>
<tr>
<td>Humanities 3201</td>
<td>4</td>
<td>Industrial Arts 3365 and</td>
<td>6</td>
</tr>
<tr>
<td>(or Bible), 3213</td>
<td>13</td>
<td>3 hours advanced</td>
<td></td>
</tr>
<tr>
<td>Minor courses or electives</td>
<td></td>
<td>Minor courses or electives</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>
REQUIREMENTS FOR SECOND TEACHING FIELDS (OR MINORS)
OTHER THAN IN ELEMENTARY EDUCATION

AGRICULTURE............. 24 semester hours, of which 12 are advanced.

ART............................. 24 semester hours, of which 12 are advanced.

BIOLOGY..................... 24 semester hours, of which 12 are advanced; Chemistry 1410, 1420.

BUS. ADMIN................. 24 semester hours, including Bus. Adm. 1321 or 1343, 1323 or 1325, 2461, 2462, 3361, 3362 and 6 hours advanced.

CHEMISTRY.................. Chemistry 1410, 1420, 2410, 2420, 4315 and one advanced course in proper sequence.

ENGLISH.................... English 1310, 1320, 2310, 2320, 3317 or 3319, and 9 hours advanced, depending on curriculum.

FOREIGN LANGUAGE ......... Eight courses in one language if taking a certificate; otherwise, six courses may absolve the minor.

HISTORY..................... 24 semester hours, of which 12 are advanced.

HOME ECONOMICS............ 24 semester hours, of which 12 are advanced.

INDUSTRIAL ARTS......... 24 semester hours, of which 12 are advanced, including I.A. 1320, 1330, 4384 and five elective courses.

JOURNALISM................ 24 semester hours, of which 12 are advanced.

MATHEMATICS ............. Mathematics 1310, 1315, 1317, 2363, 2371, 2372. Add 3323 if not taking a certificate. Add 3315 and 4304 if taking a certificate. Add 1301 if solid geometry not taken in high school.

MUSIC............................ 24 semester hours, including Music 1311, 1312, 2361, 3237, 3239, 3207 and 6 hours advanced; three hours of applied music.

PHYSICS..................... 24 semester hours, of which 12 are advanced; mathematics courses through the calculus.

PHYS. ED. (men)........... 24 semester hours, including P.E. 1341 or 1342, 2354, 4301 or 4391 or 4392, and 9 hours from 3311, 3313, 3317, 4351; 6 hours of activities.

PHYS. ED. (women)........ 24 semester hours, including Hlth. Ed. 1124; P.E. 2201 and 17 hours advanced; 4 hours of activities.

SOCIAL SCIENCES........... 18 semester hours, provided the student is not taking a teaching certificate.

SPEECH.......................... 24 semester hours, of which 12 are advanced.
PRE-PROFESSIONAL CURRICULA

Students intending to prepare for the study of medicine, law, dentistry, or nursing should enroll under the Bachelor of Arts or Bachelor of Science degree as suggested by advisors, whose names may be secured from the Office of the Registrar. Prior to each registration, any student enrolled in a pre-professional course should consult with his advisor.

**Medicine:** Medical schools require the appropriate baccalaureate degree for entrance. A suggested program which will satisfy the pre­medical requirements is as follows: Chemistry 1410, 1420, 3410, 2410, 2420; Biology 1410, 1420, 2340, 2350, 3495, and any one or more of the following courses: Biology 3460, 3490, 3350; Physics 1410, 1420; English 1310, 1320, 2310, 2320; Mathematics 1310, 1315, 1317 or Mathematics 2363 in lieu of Mathematics 1317 if trigonometry has been completed in high school; Government 2310, 2320; History 1310, 1320; Physical Education activities, four semester hours.

**Dentistry:** Most dental schools require two years of college work for entrance; however, many of the students accepted into dental schools have more work than this. Included in the required course for dental school are the following: Chemistry 1410, 1420, 2410, 2420; Biology 1410, 1420, 2340, 2350, 3495 and any one or more of the following courses: Biology 3460, 3490, 3350; Physics 1410, 1420; English 1310, 1320. It is recommended that students complete in addition to the above courses English 2310, 2320; Mathematics 1310, 1315, 1317 (or Mathematics 2363 in lieu of Mathematics 1317 if trigonometry has been completed in high school); Chemistry 3410; Government 2310, 2320; History 1310, 1320; Physical Education activities, four semester hours; electives to make a total of 64 semester hours.

**Nursing:** The following course of study is basic to Nursing: English 1310, 1320, 2310, 2320 or 2330, 2340 or 2370, 2380; Biology 1410, 1420; Chemistry 1410, 1420; History 1310, 1320; Government 2310, 2320; Sociology 2310; Education 2310; electives, eight semester hours; Physical Education activities, four semester hours.

Registered nurses who desire to pursue the baccalaureate degree for teaching purposes will find, upon consulting the Registrar's Office, that between 50 and 65 semester hours of credit may ordinarily be obtained when the nursing credits have been evaluated.

**Law:** Recommended pre-law programs (patterned after that of the University of Texas): English 1310, 1320 and 2310, 2320 or 2370, 2380; Speech 1310; courses 1410, 1420, 2310, 2320 in a foreign language; mathematics, six semester hours; Biology 1410, 1420; Chemistry (or Physics) 1410, 1420; social science, 36 semester hours including History 1310, 1320, 3315; 3316; Government 2310, 2320; Economics 2310, and at least 15 semester hours of advanced social science; Physical Education activities, four semester hours; sufficient electives to make a total of 100 semester hours of pre-law work of which at least 24 semester hours must be advanced.
Combination Degree. Upon the successful completion of at least 96 semester hours of prescribed work in this institution, a student who has been subsequently certified by the dean of an approved school of law, medicine, or dentistry as having completed one year of work in that institution, may be granted the appropriate baccalaureate degree by Southwest Texas State College. The student is expected to meet all catalogue requirements for the degree. The minimum amount of residence work must be the last thirty of the 96 semester hours mentioned above.

Engineering: Because of the diversity of choices of curricula open to students in the field of Engineering, pre-engineering students should, from the time they first enroll, with the aid of the advisor designated for the purpose select courses basic to the specific field of engineering in which they would specialize. The following course of study is basic to the last two years of work in Engineering as customarily offered by schools specializing in that field:

Freshman Year: English 1310, 1320; Mathematics 1310, 1315, 1317 (parallel in first semester); Mathematics 2363; Industrial Arts 1313, 1319; Physics 1410, 1420; Physical Education activities, two semester hours.

Note: Students who do not offer solid geometry for entrance to college should include in their course Mathematics 1301.

Sophomore year: English 2380, 2350; Mathematics 2375, (parallel with 2372), 2371, 2372; Chemistry 1410, 1420; Physics 2410, 3410; Physical Education activities, two semester hours; other subjects to make a total of 32 semester hours.

Pharmacy: Pharmacy programs require five years of work of which two may be accomplished in this institution. The recommended local program, patterned after University of Texas requirements, consists of Biology 1410, 1420, 3340, 3345; Chemistry 1410, 1420, 2410, 2420; English 1310, 1320, 2370, 2380; Mathematics 1310, 1315, 1317; History 1310, 1320; Physics 1410, 1420; and Physical Education activities.
THE GRADUATE SCHOOL
The Graduate Council
1963-1964

Leland E. Derrick, B.A., M.A., Ph.D., Dean or Graduate Studies
William E. Norris, Jr., B.S., Ph.D., Biology
Jean A. Smith, B.S., M.S., P.E.D., Health and Physical Education
Archie O. Parks, B.S., M.A., Ph.D., Chemistry
J. Lloyd Rogers, B.S. in Ed., M.A., Ph.D., Education
Richard B. Henderson, B.A., M.A., Ph.D., History
Robert W. Walts, B.A., M.A., Ph.D., English
Victor L. Bowers, B.A., M.A., Ph.D., Industrial Arts
Burrell W. Helton, B.A., B.B.A., M.A., Ph.D., Mathematics
Ex-Officio:
John Garland Flowers, B.A., M.A., Ph.D., President
Joe H. Wilson, B.A., M.A., Ph.D., Dean of the College
Clem C. Jones, B.A., M.A., Registrar

AUTHORIZATION

The establishment of a Graduate School at Southwest Texas State College was authorized by the Board of Regents at its meeting on June 15, 1935. Work leading to the degree of Master of Arts was offered for the first time in the summer session, 1936. The program for the master's degree was inaugurated in response to a growing demand on the part of school authorities and of classroom teachers generally. In 1950 the Board of Regents authorized the granting of the Master of Education degree in addition to that of Master of Arts. The program for each degree is specially designed to stress advanced training for administration and more effective classroom teaching, and to that end provides for majors in the following fields of subject matter: biology, chemistry, education, English, health and physical education, history, industrial arts, mathematics and speech and hearing therapy.

Other graduate programs available lead to professional certification in the field of agricultural education, business education, home economics education, and music education.

OBJECTIVES

The purpose of the Graduate School is identical with the main purpose of the undergraduate program of the college; that is, teacher education. The following objectives have been advanced with the view toward completing and broadening the academic and professional preparation received at the undergraduate level:

1. To reinforce and supplement the student's academic and professional equipment always with the view of improving professional efficiency.
2. To familiarize the student with current or recent research in his field, to acquaint him with the techniques of research, to enable him to interpret his own and current research, to derive the significant implications therefrom, and to apply the pertinent findings.

3. To challenge the student intellectually, and to direct him toward the goal of more effective classroom teaching and more alert administrative leadership.

ADMINISTRATION

The Graduate Council determines the policies of the Graduate School, and those policies are administered by the Dean of Graduate Studies. Besides the Dean of Graduate Studies, who serves as Chairman, the Graduate Council is composed of a representative from each division and department which offers a graduate major. The President, the Dean of the College, and the Registrar are ex-officio members of the Council.

ADMISSION TO GRADUATE STUDY

1. Bachelor's Degree: Graduates of the Southwest Texas State College and other institutions of standard collegiate rank recognized by an accrediting agency such as the Southern Association of Colleges and Secondary Schools are eligible to apply for admission to graduate study.

A senior student in the college who lacks nine or fewer semester hours toward graduation may enroll for courses to be applied toward the master's degree, provided that the number of semester hours applicable to the master's degree shall not exceed the difference between 15 semester hours (maximum load) and the number of hours needed for graduation, and provided further that, at the discretion of the Dean of Graduate Studies students of demonstrated superior scholastic achievement who lack 12 hours for graduation may enroll for three hours of graduate work.

2. Grade Requirements: Admission to graduate study will be restricted to those applicants whose records indicate probable success in graduate work. Determination of the applicant's eligibility will be made on the basis of the undergraduate grade average and the score on the Miller Analogies Test in accordance with policies established by the Graduate Council.

3. All applicants for admission to graduate study are required to take the Miller Analogies Test, for which a fee of $1.00 is collected at the time of the examination. Dates on which the test is scheduled can be obtained from the Graduate Office.

4. Admission Procedures: Admission to graduate study is granted by the Dean of Graduate Studies upon the presentation of proper credentials by the applicant. Graduates of other institutions should forward to the Dean of Graduate Studies official transcripts of all college work completed. Time will be saved by filing transcripts well in advance of the date of original enrollment in the Graduate School. The application for admission is completed in the Graduate Office, either in conference with the appli-
5. Admission to Graduate Study Versus Admission to Candidacy: Admission to graduate study shall not be understood as implying admission to candidacy for the master's degree.

ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE

1. Degree Program: The student who expects to become a candidate for the master's degree should apply to the Dean of Graduate Studies for an outline of the proposed degree program. This outline should be prepared prior to the student's enrollment in the Graduate School.

2. Appointment of Major Professor: When he has approved the degree program, the chairman of the department or division in which the student majors will appoint a major professor. The student should confer with his major professor as soon as possible after receiving notice of the appointment.

3. Application for Candidacy: Upon the successful completion of 15 semester hours of graduate work, the student will make a formal application for candidacy for the master's degree. The application, bearing the signature of the major professor, must be filed in the Graduate Office not later than 30 days prior to the commencement at which the student expects to have the degree conferred.

REQUIREMENTS FOR THE MASTER'S DEGREE

1. Residence Requirement: Thirty semester hours of graduate work must be completed on the campus of Southwest Texas State College.

2. Credits by Transfer, Extension Study, or Correspondence: A maximum of six semester hours of credit earned at another institution may be accepted on transfer and applied toward the master's degree, provided that the credit was earned in graduate courses completed in residence at an accredited institution, that the courses are appropriate to the student's degree program at this college, and that acceptance of the transferred credit does not violate the 30-hour residence requirement.

Not more than six semester hours of graduate credit may be earned in extension courses offered by Southwest Texas State College, and acceptance of such credit may not reduce the residence requirement.

No credit toward a master's degree may be earned through extension courses at another institution or through correspondence study.

3. Semester's Work: In order to encourage extensive reading, independent thinking, and appropriate individual research, the graduate student shall be advised to enroll for no more than 12 semester hours of work in a semester of 18 weeks; and in no case may he enroll for more than 15 semester hours. A professor teaching only graduate courses shall be limited, moreover, to 12 semester hours of classroom instruction or to nine semester hours if he is directing as many as five master's theses.

4. The total study and teaching schedule of graduate assistants shall not exceed 18 hours per week.
5. Teachers' Work Loads: Persons holding full-time teaching positions will not be permitted to enroll for more than six semester hours of graduate work during any semester nor for more than a total of nine semester hours in two successive semesters. This total of nine hours will not be approved unless the student has a superior undergraduate and graduate record and the authorization of his employer.

6. Credit Limit: Not more than six semester hours of graduate credit may be earned in a six-week summer term, and not more than 12 semester hours of credit may be earned during a 12-week summer session.

7. Time Limit: A program leading to the master's degree must be completed within six years from the date of the student's initial enrollment for graduate courses. No credit will be applied toward the master's degree for courses completed more than six years before the date on which the degree is to be conferred. An extension of time will be given to students who are involuntarily inducted into military service.

8. The minimum number of semester hours required for the degree is 30; the maximum is 42.

9. At least one half of the courses applied toward the degree must be numbered 5,000 or above.

10. Ordinarily, except as noted, not more than six hours of credit earned in courses open to juniors may be applied toward the master's degree. Students enrolled in undergraduate courses for graduate credit will be required to meet higher standards of work, both quantitatively and qualitatively, than are required of undergraduates.

11. Majors in education who apply for the Master of Education degree must include a problems course: Education 5391 or Education 5390. As a part of the requirements for each course the student will write a formal report prepared in conformity with instructions given in the manual for writing the thesis.

12. Prerequisites for Graduate Courses: A background of 24 semester hours, including 12 advanced, is required for the graduate major; and 18 hours, including six advanced, is required for the graduate minor. Majors in any phase of education who have not completed student teaching must complete this course as a background requirement unless a waiver is obtained from the Department of Education on the basis of teaching experience.

13. Grades in all courses taken for graduate credit must average "B," provided that no grade of "D" shall be valid, and provided further that a grade of "A" must be earned for each grade below "B" and for each incomplete grade, except in thesis courses. An "A" grade earned at another institution may not be used to remove a grade deficiency earned at this college. A student who falls two points below a "B" average must secure approval of the Dean of Graduate Studies to continue in the Graduate Division.

14. Thesis Requirements: If the student elects to write a thesis, a committee to direct the thesis will be assigned by the Dean of Graduate Studies in conference with the student.
A. The thesis must demonstrate the student's capacity for research and independent thought. The completed thesis must be submitted to the chairman of the thesis committee not later than 30 days before the date of the commencement at which the degree is to be conferred; and two copies of the thesis, bearing the signatures of the members of the committee, must be deposited with the Dean of Graduate Studies for final approval not later than 15 days before the date of the commencement at which the degree is to be conferred.

B. Two copies of the thesis must be bound, or a fee to cover the cost of binding must be paid to the Business Manager before the degree is conferred.

C. The thesis must be prepared in conformity with the style manual, which is available in the Graduate Office.

D. Credit for the thesis will be recorded as course number 5699 in the field in which the subject matter of the thesis falls, e.g., Education 5699, English 5699. A student may not enroll for the thesis course before he has been admitted to candidacy for the master's degree. If he does not complete the thesis in the term or semester in which he is enrolled for it, he will receive a grade of "I" with the privilege of redeeming credit for the course by completing the thesis at any time prior to his graduation. He will not be expected to enroll for the thesis course a second time.

15. Comprehensive Examination: All candidates for the master's degree must pass a comprehensive examination, either written or oral or both, covering at least the field of concentration and the thesis if a thesis is written. This examination may not be taken until the student has acquired at least 18 hours of graduate credit and may not be taken before the final term or semester if the student has a grade deficiency. The grade on the comprehensive examination must be filed in the Graduate Office at least ten days before the commencement at which the degree is to be conferred. Arrangements for the examination may be made with the major professor or the department head.

16. Application for the Degree. The candidate must file application for the degree not later than three weeks before the commencement at which the degree is to be conferred.

17. Recommendations for the Degree: Upon the completion of all requirements for the master's degree, and with the approval of the department or division concerned, candidates are certified for graduation by the Dean of Graduate Studies. Degrees are conferred publicly at the close of the fall semester, of the spring semester, and of the summer session.

12. Degree Plans: The candidate for the master's degree is offered an option in meeting the requirements set forth above. He may elect to write a thesis, or he may omit the thesis and complete additional classroom work. Students who write a thesis will earn the Master of Arts degree; those who omit the thesis will earn the Master of Education degree.
OPTION I.

PROGRAM LEADING TO THE MASTER OF ARTS DEGREE

Plan A: Thirty semester hour plan

(1) A minimum of 30 semester hours of work, selected from courses recognized for graduate credit must be completed, including the six semester hours allowed for the thesis.

(2) Of the 30 hours of work required at least 15 hours, inclusive of the credit allowed for the thesis, must be in courses numbered 5,000 or above.

(3) This degree program must include:
   (a) a major of 18 semester hours, inclusive of the thesis, and two minors of six semester hours each or one minor of 12 hours, or
   (b) a major of 21 semester hours, inclusive of the thesis, and a minor of nine hours.

Plan B: Thirty-six semester hour plan

(1) Students who earned their baccalaureate degree in the secondary field and who wish to take their Master of Arts degree in elementary education must do so by completing the prescribed course of study including a minimum of 36 semester hours.

(2) This program must include:
   (a) a major of 18 semester hours in elementary education, inclusive of the thesis, and
   (b) a minor of 18 semester hours in professional subject matter.

OPTION II.

PROGRAMS LEADING TO THE MASTER OF EDUCATION DEGREE

Plan A: Thirty-six semester hour plan

(1) If no major change in objective is involved, a student may omit the thesis and earn the Master of Education degree by completing 36 hours of graduate work.

(2) This degree program must include:
   (a) a major of 21 semester hours, and
   (b) a minor of 15 semester hours or two minors, one of six hours and one of nine.

Plan B: Forty-two semester hour plan

(1) Students who earned their baccalaureate degree in the secondary field and who wish to do their graduate work in elementary education may omit the thesis and earn the Master of Education degree by completing a prescribed course of study including a maximum of 42 semester hours of
graduate work, provided that this number may be reduced if warranted by elementary work completed by the candidate at the undergraduate level.

(2) This degree program must include:
   (a) a major of 21 to 24 semester hours in elementary education, and
   (b) a minor of 18 to 21 semester hours.

DIVISIONS OF INSTRUCTION

I. Education and Directed Teaching

II. English, Journalism, and Speech

III. Fine Arts
   1. Art
   2. Music

IV. Foreign Languages
   1. French
   2. German
   3. Spanish

V. Health and Physical Education and Recreation

VI. Practical Arts
   1. Business Administration
   2. Home Economics
   3. Industrial Arts

VII. Sciences
   1. Biology
   2. Chemistry
   3. General Science
   4. Mathematics
   5. Physics
   6. Vocational Agriculture

VIII. Social Sciences
   1. History
   2. Economics
   3. Geography
   4. Government
   5. Sociology

IX. Religious Instruction

X. Air Science (Air Force Reserve Officers Training Corps)

The courses offered in each of these Divisions and descriptions of the courses are given on the following pages.
I. DIVISION OF EDUCATION AND DIRECTED TEACHING

Professors Rogers, W. F. Brown, McCanne, Norwood, Richardson, Williams, Wilson
Professors of Special Education Burgum, Zedler
Associate Professors Allen, Bruce, Martine, Stone
Assistant Professors Jones, Lane, Shepherd, Stewart, Walton*
Instructors D. Brown, Cogdill, Dominguez, Mitchell, Tokash

Students who intend at the time of graduation to become applicants for certificates to teach will be expected to complete the requirements outlined under the Curriculum for Elementary or for High School Teachers, respectively, leading to the degree of Bachelor of Science in Education or under the appropriate curriculum leading to one of the following degrees: Bachelor of Science in Home Economics, Bachelor of Science in Industrial Arts, Bachelor of Science in Vocational Agriculture, Bachelor of Music Education. Students enrolling under the curriculum leading to the degree of Bachelor of Arts or Bachelor of Science, or Bachelor of Business Administration wishing to qualify at the time of graduation for a permanent high school certificate will be expected to include in their courses of study two teaching fields, the sequence in secondary education, and the Academic Foundations called for under the curriculum leading to the degree of Bachelor of Science in Education.

Courses in education will be taken in the order shown in the outlines for the various curricula. However, approval of candidacy for admission to any course in education and again for admission to directed teaching shall be granted only to those who show evidence of potential professional competence in the following areas.

1. Scholarship ("C" average or higher in Academic Foundations, in major, in overall average, and in local average)
2. Character
3. Personality
4. Physical and Mental Health
5. Intelligence
6. Definite intention to teach

National Teachers Examination. Effective September, 1965, all students applying for certificates are required to have taken the common portion of the National Teachers Examination as a condition of recommendation by the college for the certificate.

DIRECTED TEACHING

Courses in directed teaching will come, under existing programs, in the senior year, preferably in the first semester.

Students pursuing the elementary curriculum are required to take Education 4680 in a six-hour block. They will do their directed teaching

* On leave 1963-1964
in grades one to seven, inclusive, or in the kindergarten or nursery school. Those pursuing the secondary curriculum are required to take Education 4681 in a six-hour block. They will do their directed teaching in grades seven to 12, inclusive. Such six-hour blocks involve a one-half-day assignment for 18 weeks which may be taken from nine to 12 in the morning or from one to four in the afternoon; or a full day assignment for nine weeks.

In all directed teaching the student study pupils to determine their needs as a partial basis for careful instructional planning. They make and submit lessons plans, make careful preparation in the class being taught, especially emphasizing the organization of the subject matter and the application of method to it. They are expected to prepare each day's lesson so that at any stage they can take charge of the class and carry on the work, especially during the later stages of their assignment. The amount of independent teaching done by each student teacher will vary with the teaching competence he develops.

Certain conferences with student teachers are conducted each semester. Some of these conferences are conducted with all student teachers in one assembly, some with departmental groups, and some with individual classroom supervisors. A minimum of one such scheduled conference is conducted each week.

Candidates for all-level certification in fields such as art, music, physical education will enroll for Education 4380 and 4381.

4383 (281S) Directed Teaching (Elementary). (7½-0) Credit, 3 hours. This is a course designed to satisfy the requirements of student teaching for employed teachers who find it impossible to do Education 4680. It is offered on either of two plans:

(a) When offered in the summer session for experienced teachers, which is the usual arrangement, it consists of research in materials, methods, and child development, and the application of the findings to the teaching assignment of each participant. The actual preparation of curriculum materials is required, along with some observation.

(b) Under some circumstances it is offered for employed teachers as an individual in-service project related to that teacher's position, and extending through a regular school year. Since in such cases it involves visitation by a college supervisor, this necessitates the payment of a special fee of $50.00 to cover the added cost of supervision.

4384 (291S) Directed Teaching (Secondary). (7½-0) Credit, 3 hours. See Education 4383 for description of the course.

4385 (284) Directed Teaching in Special Education (Elementary). (1-6) Credit, 3 hours. Differentiated according to area of specialization. Observation, participation and teaching children who are hard of hearing, mentally retarded, defective in speech, or orthopedically handicapped.

Prerequisite: Education 4380 or 4381, or concurrent registration, or approved teaching experience.
4386 (294) Directed Teaching in Special Education (Secondary). (1-6) Credit, 3 hours. A course paralleling Education 4385 for those doing their directed teaching at secondary level.

Prerequisite: Education 4380 or 4381, or concurrent registration, or approved teaching experience.

4680 (281, 282) Directed Teaching (Elementary). (1-6) Credit, 3 hours each. Courses providing opportunities for observation, participation and directed teaching for elementary curriculum students on the senior level.

4681 (291, 292) Directed Teaching (Secondary). (1-6) Credit, 3 hours each. Courses providing opportunities for observation, participation and directed teaching for students enrolled in the curriculum for high school teachers. Education 4681 is required of candidates for the permanent high school certificate, except in the instance of those eligible to enroll for Education 4384.

COURSES IN EDUCATION

Required Sequences for Certificate

Students are required to complete, beginning with their junior year, 18 semester hours, including six semester hours in student teaching.

For elementary teachers, the sequence will be:
   Education 3311, 3320, 4323, 4324, 4680.

For secondary teachers, the sequence will be:
   Education 3312, 3330, 4681, 4331, 4332.

When such courses are needed by a student for such purposes as certification other than in Texas, or when he plans to do graduate work in Education, he may elect additional courses to total not more than 24 semester hours. Such courses as Education 2310, 4302, 4315, 4303 may serve as electives.

For students who began college before September 1, 1962, and whose degree outlines include the following courses, the courses in parentheses may be substituted for the respective courses.

   Elementary: 147 (3311), 123 (3320), 200 (4323), 227 (4324).
   Secondary: 157 (3312), 163 (3330).

3311 (151) The Elementary Learner: His Growth and Development. (3-0) Credit, 3 hours. This course deals with the basic concepts of child development and behavior, with particular reference to the physical, social, emotional, and intellectual aspects of his development. Emphasis is placed upon the principles and laws of learning as they may be applied to the elementary school child. Direct study of children in the laboratory school supplements the class discussions.

3312 (161) The Adolescent Learner: His Growth and Development. (3-0) Credit, 3 hours. A course dealing with the general psychological principles concerning perception, motivation, learning, and forgetting.
These principles will be used in studying the physical, mental, emotional, social, and moral characteristics peculiar to the adolescent period of life. Attention is given to deviations from the normal, as in cases of delinquency, and in emotional and intellectual development. A minimum number of observations will be required and opportunity for other professional laboratory experiences provided in the public schools; additional experiences with adolescents in home and community situations are encouraged, and provided when possible.

3320 (152) The Elementary School: Principles and Curriculum. (3-0) Credit, 3 hours. This is a study of the foundations, principles and objectives of the elementary school. Methods, materials, and planning for the provision of appropriate learning experiences in the elementary classroom are presented. Attention is given to the overall school program, with special emphasis upon the social studies. Observation of and participation in elementary classroom activities are an integral part of the course.

3330 (162) The Secondary School: Principles and Procedures. (3-0) Credit, 3 hours. A study of the foundations, principles, and objectives of the secondary school with emphasis on unit construction, teaching methods, techniques of the recitation, and classroom management. Observations of secondary class activities are required.

4331, 4332 (208, 209) See description under “Other Courses.”

4323 (247) Elementary Teaching: The Curriculum in Language Arts. (3-0) Credit, 3 hours. This is a continuation of Education 3320 in studying the elementary curriculum. Methods and materials will be considered in oral and written communication, in reading, in spelling, and in handwriting, with a major emphasis on instruction in reading.

4324 (248) Elementary Teaching: The Teacher's Role. (3-0) Credit, 3 hours. This course deals with additional role and duties of the teacher not adequately covered in other courses. This includes those involved in being a member of a profession and of the total school staff; in working in the community and with parents. Other tasks to be discussed are those related to the evaluation of pupil progress, the administration and interpretation of educational measurement, and in utilization of instructional aids and community resources.

Note: Education courses except 2310 are not applicable toward a degree unless the student completes the requirements for a certificate.

Other Courses

2310 (53) General Psychology. (3-0) Credit, 3 hours. A course dealing with the foundation laws and principles of living and learning. The following topics receive attention: motivation, emotions, the senses, observation, learning, thinking, personality problems, intelligence, and the form and functions of the nervous system. Psychological principles are applied to personality, vocational problems, adjustments, getting along with people, and social problems. Open as an elective to any qualified student.
3309 (121) Curriculum Development in the Elementary School. (3-0) Credit, 3 hours. A course dealing with the basic principles of curriculum development and with the various plans of curriculum organization. Special emphasis is placed upon the selection and organization of materials for the various elementary subject matter areas.

3313 (148) Human Growth and Development I. (3-0) Credit, 3 hours. See Education 5313 for description of this course.

3314 (149) Human Growth and Development II. (3-0) Credit, 3 hours. See Education 5314 for description of this course.

3360 (120) The Education of Exceptional Children. (3-0) Credit, 3 hours. A survey course designed to orient students to the program and problems related to the education of handicapped and gifted children. Consideration is given to the problems of the blind, the partially seeing, the deaf, hard of hearing, the crippled child with lower vitality, the speech defective, the nervous child, and the child with a mental or social handicap. Current programs of special education are presented and visits are made to institutions located within the vicinity of San Marcos.

3361 (140) Education of the Orthopedically Handicapped. (3-0) Credit, 3 hours. See Education 5361 for description of this course.

3362 (170) Special Methods and Materials for Exceptional Children. (3-0) Credits, 3 hours. See Education 5362 for description of this course.

4302 (213) Measurements in Education. (3-2) Credit, 3 hours. The general purposes of this course are to introduce the students to the problems of constructing and evaluating informal achievement tests and of administering, scoring, and interpreting standardized ability, achievement, and attitude tests. The simpler procedures necessary to test construction, analysis and utilization process will be introduced functionally. Included in these processes are: item writing and analysis, frequency distribution, central tendency and variability; test objectivity, reliability and validity; and interpretative scales, norms and profiles. Laboratory activities will include practice in test construction, administration, scoring and interpretation.

4303 (273) Audio-Visual Education. (3-0) Credit, 3 hours. This is a survey course designed to acquaint the student with the value of audio-visual aids in teaching-learning situations, with the materials and equipment so classified, and with sound principles for their use in his major field. It is a lecture-demonstration-laboratory type of course intended to develop competency in the production, selection, acquisition, processing, and utilization of such materials. Included are such visual materials as films, film-strips, slides; such auditory materials as recording, radio; such graphics as pictures, posters, graphs, globes, maps, museums objects.

4305 (274) The Production and Use of Materials for Multi-media Instruction. (3-3) Credit, 3 hours. A demonstration-laboratory course dealing with the development of techniques, equipment and materials com-
monly used in the production of audio-visual communications media. Theory, practice, and utilization are covered relative to planning, lettering, coloring, laminating, and mounting available materials such as illustrations and other pictorial materials in the production of maps, charts, posters, and graphs for projected and non-projected use. Three two-hour lecture-demonstration-laboratory periods.

*4315 (260) Mental Hygiene. (3-0) Credit, 3 hours. A study of the principles governing the development of human behavior. Emphasis is placed upon the experiences within the family, neighborhood, and school which are common to all individuals. The last unit of the course deals with the mental hygiene needs of all college students as well as those majoring in special education.

4321 (200) The Improvement of Reading Instruction. (3-0) Credit, 3 hours. See Education 5321 for description of this course.

4331 (208) Secondary Teaching: Evaluation and Guidance. (3-0) Credit, 3 hours. This course is a survey of the field of evaluation and guidance of the individual pupil, and of certain legal aspects of the teacher's role in the public school. It deals with the construction of informal tests and the administration, interpretation and utilization of standardized tests. It also includes a survey of the principles and techniques of guidance, with emphasis on the roles of the various personnel in the school. In addition, the legal aspects of the Minimum Foundation Program, school attendance, the census, and child labor laws are covered.

4332 (209) Secondary Teaching: Curriculum and Materials. (3-0) Credit, 3 hours. This course surveys the issue and principles of curriculums development, with special emphasis on the Texas curriculum program; learning materials essential to carry out the curriculum are included, with emphasis on obtaining, constructing, and using audio-visual materials; community contributions to the curriculum, the use of community resources are considered.

*4333 (253) The Secondary Curriculum. (3-0) Credit, 3 hours. This course includes (1) a brief history of curriculum development with special emphasis upon the Texas curriculum program, (2) the basic principles of curriculum making, and (3) the technique of curriculum construction and installation. In all three of these phases of study the aims and purposes of the curriculum as they function in perpetuating and improving democratic ideals will be emphasized. Also attention will be given to some of the most significant researches in curriculum development.

4363 (230) Curriculum and Methods for the Mentally Retarded. (3-0) Credit, 3 hours. A library-laboratory course designed to assist students in the development of curriculum and methods suited to their particular problems with the mentally retarded. For principals, supervisors, and teachers now engaged in the field, and for those having a background in the psychology of exceptional children. Attention is given to philosophy, *May be taken as a graduate course with approval of the Dean of Graduate Studies.
methods, and materials adapted to various age grouping; pupil guidance and evaluation; study of suitable job outlets and work experiences.

4367 (256) **Methods and Materials for Teaching Orthopedically Handicapped Pupils.** (3-0) Credit, 3 hours. This course will emphasize methods and materials for teaching elementary classroom subject matter such as reading, spelling, and arithmetic to pupils in the public schools with orthopedic handicaps. Special emphasis will be placed upon teaching the child with cerebral palsy, brain injury, and related disorders.

Prerequisite: Education 3361 or 5361 and Speech Correction 4363, or their equivalents.

5303 (327) **History and Philosophy of Education.** (3-0) Credit, 3 hours. A course dealing with the historical and philosophical foundations of American education, as a basis for decisions on current issues. Historically, major emphasis will be placed upon the evolution of American schools, with less attention to European backgrounds and to comparative studies. Philosophically, the primary consideration will be given to thinking philosophically about specific problems, a somewhat eclectic approach, with secondary attention to systematic schools of thought.

5305 (351) **Group Testing.** (3-2) Credit, 3 hours. This course deals with problems of administering and interpreting educational tests that are designed for group administration. The utilization of educational measurements—aptitude, achievement, attitude and adjustment—in national, state and local programs will be considered. Elementary statistical methods and test construction problems will be covered. Laboratory activities will include practice in test construction, administration, scoring and interpretation.

5313 (348) **Human Growth and Development I.** (3-0) Credit, 3 hours. This course provides training for teachers (elementary or secondary), counselors, supervisors, and administrators to improve their professional effectiveness through the direct study of individual pupils according to an organizing framework of scientific knowledge of human growth and development. Emphasis is placed on these three areas of development: the physical processes, the affectional processes, and peer relationships.

This course is offered as a workshop in the summer session with two hours of laboratory each week by arrangement.

5314 (349) **Human Growth and Development II.** (3-0) Credit, 3 hours. This course is designed for teachers (elementary or secondary), counselors, supervisors, and administrators to increase their understanding of the motivation, the developmental level, and the abilities of individual pupils by a direct study of individuals in the classroom. Emphasis is placed upon increasing scientific knowledge of culture, self-developmental, and self-adjustive areas of development.

This course is offered as a workshop in the summer session with two hours of laboratory each week, by arrangement.

Prerequisite: Education 5313 or approval of the instructor.
5321 (300) The Improvement of Reading Instruction. (3-0) Credit, 3 hours. This course attacks two problems: (1) the improvement of the basic reading program; (2) the correction of reading difficulties, in individuals or in groups. It therefore deals with such topics as the psychology of reading, the factors involved in reading, the characteristics of a good reading program; the determination of and the development of readiness; the development of basic reading abilities; the diagnosis of reading difficulties; the improvement of recognition techniques, vocabulary, comprehension, interest.

The Laboratory School will be used in connection with the problems of this course.

5325 (321) Workshops in Corrective Reading for Elementary Teachers. Credit, 3 hours each. In Education 5325 activities consist of lectures, demonstrations, group and individual work, laboratory practice. Consideration will be given to the types, causes, and analysis of reading difficulties; the choice and preparation of remedial materials, and procedures in their use; the planning of preventive and corrective programs. Laboratory sessions will include opportunity to apply certain analytic corrective techniques.

5326 (355) The Elementary School Curriculum. (3-0) Credit, 3 hours. A course which deals with the principles of curriculum development and organization, the selection of curriculum experiences, the planning of various types of units, an overview of curriculum outcomes in various areas, guiding school experiences and unit activities, and some actual practice in preparing curriculum materials.

5327 (379) Principles and Practices in the Elementary School. (3-0) Credit, 3 hours. This course is intended to define and interpret the newer trends in elementary school practices; it deals with the philosophy and objectives of the elementary school and with procedures for implementing these objectives. Such topics will be treated as classroom organization and management, the principles of unified learning as applied to school experiences, procedures for planning and developing experiences, meeting individual needs, evaluation.

5333 (353) The Secondary Curriculum. (3-0) Credit, 3 hours. This course includes (1) a brief history of curriculum development with special emphasis upon the Texas curriculum program, (2) the basic principles of curriculum making, and (3) the techniques of curriculum construction and installation. In all three of these phases of study the aims and purposes of the curriculum as they function in perpetuating and improving democratic ideals will be emphasized. Also attention will be given to some of the significant researches in curriculum development.

5340 (357) Public School Administration. (3-0) Credit, 3 hours. A course dealing with the overall principles of administration of public schools, preliminary to the courses with more intensive study of specific problems. Topics included are relations with the board of education, prob-
lems concerning the school plant, business and finance, pupil personnel activities, the curriculum, supervision of instruction, personnel, and public relations.

5341 (317) Supervision of Instruction. (3-0) Credit, 3 hours. A course including the fundamental problems of the supervision of instruction in the small and moderate sized public schools. Among the more important problems receiving attention are the following: The nature and organization of supervision, supervisory plans and principles; teacher participation in forming educational policies; effect of recent educational practices upon supervision; duties, relationship, and training of supervisory officials; standards for judging teachers; methods of improving instruction; case studies in supervision; the use of conferences, teacher's meetings, demonstration teaching, visitation and research studies as supervisory agencies. The Laboratory School will be the laboratory for this course.

5342 (365) Supervision of the Elementary School. (3-0) Credit, 3 hours. This course gives consideration to the general organization of the elementary school; problems of classification, grouping, promotion and progress, school and community relations; the principal's routines; in-service training and the guidance of teacher growth; the improvement of other factors in the teacher-learning situation.

5343 (367) Supervision of the Secondary School. (3-0) Credit, 3 hours. This course gives consideration to such problems as the following: the organization of the secondary school; problems of classification, promotion, and progress; co-curricular activities; duties of the principal; school and community relations; in-service training and the guidance of teacher growth; supervisory principles and plans; standards for judging teaching; methods of improving instruction; methods of follow-up on both drop outs and graduates.

5344 (319) School-Community Relations. (3-0) Credit, 3 hours. A course intended to aid in the development of concepts and methods that will be of value in bringing closer integration between the school and the community. The contribution of the teacher, supervisor, guidance worker, and administrator to the improvement of school-community relations will be studied. Emphasis will be placed upon: ways to promote better community relationships; bridges between the school and community; importance of community life in the educative process; role of the school in building better communities; and the community school concept—its meaning and outstanding examples of its practice.

5346 (306) The Principalship. (3-0) Credit, 3 hours. This course deals with the duties at both elementary and secondary levels. The class will study together those elements common to all, dividing for work in areas where functions are sharply differentiated at various levels. Consideration is given to such topics as: the place of the principal in the administrative organization, community relationships, his business and personnel functions, office management, scheduling, the administration of the curriculum,
of the library and other auxiliary services, of the extra-curricular pro-
gram, of the guidance program, of the school plant.

5350 (378) Organization and Administration of a Guidance Program.
(3-0) Credit, 3 hours. This course covers practical problems in organizing,
installing, and administering a guidance program. Included will be units on
(1) principles and purposes underlying guidance; (2) the present status
of guidance, (3) relationships between the administrator, guidance direc-
tor, and counselors; (4) functions of the classroom teacher in the program;
(5) supervision of the program; and (6) evaluation of the program.

5354 (376) Counseling Techniques for Personnel Workers. (3-0) Credit,
3 hours. This course covers techniques both for counseling of individuals
and group counseling. The brief interview, the counseling interview, and
psychological counseling are considered in the light of both directive and
non-directive techniques. The use of supplementary aids such as records,
reports, sociometric techniques, and referrals are discussed; techniques
of group therapy, verbal and non-verbal, are evaluated. Throughout the
course all procedures are studied in reference to practical situations.

5355 (302) Vocational Guidance. (3-0) Credit, 3 hours. An introduction
in the nature and use of occupational information in counseling and
special group guidance classes. Sources of information, methods of de-
veloping information through job analysis and community surveys will be
stressed.

5356, 5357 (352A, 352B) Individual Testing. (3-2) Credit, 3 hours each.
These courses deal with problems of administering and interpreting psy-
chological tests that are designed for individual administration. The
utilization of intelligence, proficiency and projective tests in evaluation,
classification and prediction will be considered. Laboratory activities will
include practice in test administration, scoring and interpretation.

5356 will give experience in administering the Stanford-Binet; 5357
with the Wechsler Intelligence Scales.

5361 (340) Education of the Orthopedically Handicapped. (3-0) Credit,
3 hours. A course in basic characteristics of physical disorders resulting
in motor dysfunction, with special emphasis upon disorders deriving from
neurological impairment. The course will also deal with general principles
for educating pupils with such impairment in public schools. Visiting
lecturers from medical and paramedical fields will assist in teaching this
course.

5362 (370) Special Methods and Materials for Exceptional Children.
(3-0) Credit, 3 hours. A study of the special techniques required for suc-
cessfully teaching the various types of exceptional children in the regular
class as well as in the special class; adaptation of the curriculum; prep-
paration of case records; special methods, materials, and therapies. Provi-
sion is made for individual or group study according to the area of interest.
5364 (335) Psychological Problems of the Mentally Retarded. (3-0) Credit, 3 hours. A survey course designed to orient students to the program and problems relating to the education of that two per cent of the school population known as the mentally retarded. Topics to be covered include the testing and selection of the children for special classes, the organization and administration of the special program, and the integration of special classes with the over-all school and community life.

5389 (393) Internship Practicum. Credit, 3 hours. Offered separately for supervisors, principals, counselors, and those who are candidates for positions in various areas of special education; will vary with the field chosen. In the case of a candidate for a Principal's Certificate of Approval, for example, he would be expected, under the joint supervision of a staff member and an active principal of schools, to observe various typical activities performed by the principal, to participate in some of these activities, and to assume responsibility for some duties. A practicum is included for all like candidates, for planning purposes, for discussions, and for evaluation.

5390 (333) Advanced Seminar in Elementary Education. (3-0) Credit, 3 hours. A course in which each student will be given an opportunity to choose for study special problems to fit his particular needs and interests. Some consideration will be given to such research procedures as are needed in the preparation of a thesis or other research report, and to demonstrate his mastery of these procedures, the student will be required to present a research paper on a selected problem.

Credit may be applied toward certification as elementary principal, or as teacher of the mentally retarded, when an appropriate research problem is chosen.

5391 (343) Advanced Seminar in Secondary Education. (3-0) Credit, 3 hours. A course in which students are given an opportunity to study problems in secondary education in which they have special interest. Emphasis is placed on research procedure and a research paper is required of each student.

Credit may be applied toward certification as a secondary principal or as a counselor, or for credit in supervision when an appropriate research problem is chosen.

5699 (399) Thesis. Credit, 6 hours.

COURSES IN SPECIAL EDUCATION

This college has been authorized by the Texas Education Agency to prepare qualified speech and hearing therapists, teachers of the mentally retarded, and of the orthopedically handicapped.

The course dealing with the mentally retarded and with the orthopedically handicapped (except those dealing with language), and generalized courses dealing with exceptional children in all categories are listed and
described above. Specialized courses in speech correction and hearing therapy, and also those dealing with language for pupils with neurophysi­
cal handicaps, are listed under the Department of Speech.

Students working for a bachelor's degree with certification in one of the areas of special education should consult the appropriate advisor for early and careful planning of their courses of study. A full major in speech and hearing therapy is offered at the undergraduate level. For the master's degree, a student may major either in speech and hearing therapy or in mental retardation.

**Interdepartmental Courses**

The courses identified below are taught under the auspices of the Department of Education. They are listed by course number and title and with full description among the courses offered by the respective departments concerned. They may be elected for credit in the field of education by those deemed qualified to enroll for them as such.

**Agriculture Education 4347.** Workshop in Teaching Conservation of the Natural and Agricultural Resources. (3-0) Credit, 3 hours.

**Agricultural Education 5314.** Current Research in Teaching Vocational Agriculture. (3-0) Credit, 3 hours.

**Agricultural Education 5318.** Administration and Supervision of Vocational Education. (3-0) Credit, 3 hours.

**Agricultural Education 5325.** Methods of Organizing and Teaching Farm Mechanics. (3-0) Credit, 3 hours.

**Business Education 5356.** Materials and Procedures in Commercial Subjects. (3-0) Credit, 3 hours.

**Business Education 5358.** Workshop in Business Education. Credit, 3 or 6 hours.

**Home Economics Education 5385.** Evaluation in Home Economics. (3-0) Credit, 3 hours.

**Home Economics Education 5387.** New Trends in Teaching Homemaking. (3-0) Credit, 3 hours.

**Home Economics Education 5388.** Homemaking for Out-of-School Youth and Adults. (3-0) Credit, 3 hours.

**Music Education 5313, 5317.** Problems in Music Education. (3-0) Credit, 3 hours each.
II. DIVISION OF ENGLISH, JOURNALISM, AND SPEECH

ENGLISH

Distinguished Professor Kirk*
Professors Brasher, Derrick, Houston, Walts
Associate Professors Hightower, Hudson, Lynch, Taylor, Young
Assistant Professors Archer, Braffett, Goodale, Norwood, O'Meara, Porter, Smith
Instructors Huffstickler, Peterson, Rodgers

Instruction in English is designed to present the English language to the student as a tool of communication and self-expression and the literary heritage as a source for acquiring and enriching experience. Its purpose is therefore to train the student to habits of accurate thought-getting and effective thought-presentation and to give him an acquaintance with the resources of his language and its literature.

More specifically, the English Department seeks to instill in the student the great humanitarian ideas and ideals which permeate English and American literature, and to make him fairly articulate about these and other cultural concepts.

Ordinarily, students planning to major in English are expected to become candidates for graduation with the degree of Bachelor of Arts. They may, however, graduate with a major in English under the curriculum leading to the degree of Bachelor of Science in Education if they include a minimum of 14 hours in one foreign language in their preparation.

BACHELOR OF ARTS DEGREE

(128 hours; may be planned to include a certificate)

Notes: 1. Thirty hours in English are required.
2. A minor must be completed.
3. For candidates who plan to qualify for a teaching certificate, the minimum number of hours required may vary between 128 and 134, depending on the choice of minor (i.e., second teaching field).
4. See subsequent statement of requirements concerning selection and distribution of courses in major.

*Fall Semester, 1963
### Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tr>
<td>English 1310, 1320</td>
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<td>History 1310, 1320</td>
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<tr>
<td>Biology 1410, 1420</td>
<td>8</td>
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<tr>
<td>Mathematics 1310</td>
<td>3</td>
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<td>Speech 1310</td>
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<td>Physical Education</td>
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### Sophomore Year

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<tr>
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<tr>
<td>Chemistry or Physics 1410, 1420</td>
<td>8</td>
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<tr>
<td>Foreign Language</td>
<td>7-8</td>
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<td>Government 2310, 2320</td>
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<td>Physical Education</td>
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### Junior Year

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<tr>
<td>Foreign Language</td>
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<tr>
<td>Humanities 3201</td>
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<td>(or Bible), 3213</td>
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<tr>
<td>Electives</td>
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### Senior Year

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<tr>
<td>Electives</td>
<td>13-14</td>
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</table>

### BACHELOR OF SCIENCE IN EDUCATION DEGREE

(128 hours; includes certificate)

Notes:

1. Thirty hours in English are required.

2. A second teaching field must be completed.

3. One of the following fields must be represented in meeting requirements: science, mathematics.

4. At least 12 hours of a foreign language are required of the English major.

5. See subsequent statement of requirements concerning selection of courses in major.
ENGLISH

Junior Year

<table>
<thead>
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<th>Course</th>
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<tbody>
<tr>
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<td>Second field</td>
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<td>(or Bible), 3213</td>
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<td>Electives</td>
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Senior Year

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<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>English, advanced</td>
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<tr>
<td>Second field</td>
<td>6</td>
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<tr>
<td>Education, including</td>
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<td>4681</td>
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<td>Electives</td>
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<td></td>
<td>30</td>
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In selection of advanced courses, English majors will include English 3317 or 3319 and not more than six hours from the following courses: English 3323, 3335, 3328, 3337. This restriction in selection will not apply to any courses offered in excess of the 30 hours minimum required for the major.

Candidates for a degree in a curriculum which includes a certificate for teaching in secondary schools may elect English as a second teaching field. For such, the requirements in English will be a minimum of 24 hours selected to include the following courses: English 1310, 1320, 2310, 2320, 3317 or 3319, and 3387. For students enrolled under the curriculum for elementary teachers, a plan for using English as an area of academic specialization is described in the section of this catalogue dealing with the with the elementary curriculum.

FRESHMAN COURSES

English 1310 and 1320, in the sequence given, are required of every freshman who has not had their equivalent in an institution of college rank, and they are preliminary to any other course in English.

1310 (11) Reading and Writing. (3-0) Credit, 3 hours. This, the first course in English, is designed to improve the student’s reading skills and to supply him with thought-provoking material on which to base his training in expository writing. The study of grammar and sentence structure in this half of the course will be integrated with the student’s needs as he seeks to improve both his reading and writing skills. His outside reading will be devoted entirely to non-fiction materials, such as biography, popular science, social science, and all other books in which general information is stressed.

1320 (12) Reading and Writing. (3-0) Credit, 3 hours. The stress in this half of the course will be on the improvement of writing skills, with further practice in the pattern of longer exposition and some consideration of the materials and patterns of narration and description. Reading will be continued during this half of the term, but will be devoted to materials of a literary nature—the novel, the short story, the drama, the, and some poetry.
SOPHOMORE COURSES

2310, 2320 (61, 62) A Survey of English Literature.
Required of English majors and minors. May be elected by all students whose degree plans do not require alternate sophomore English courses.

2310 (61) Survey of English Literature from Beowulf through the Age of Classicism. (3-0) Credit, 3 hours.

2320 (62) Survey of English Literature from the Romantic Period to the Present. (3-0) Credit, 3 hours.

2330, 2340 (63, 64) World Literature.
These courses will consist of a survey of the literatures of all the great civilizations of the past and present and a study of some of the more important selections in each civilization. Required of elementary majors. May be elected by students whose degree plans do not specify alternate sophomore English courses.

2330 (63) A Survey of World Literature Before 1600. (3-0) Credit, 3 hours.

2340 (64) A Survey of World Literature from 1600 to the Present. (3-0) Credit, 3 hours.

2350 (83) Writing for Pre-engineers. (3-0) Credit, 3 hours. A study of exposition, adapted to the needs of students who have elected pre-engineering training. Practice in the planning and writing of reports and readings in modern scientific essays.

2370, 2380 (67, 68) Masterpieces.
These courses may be elected by all students whose degree plans do not require alternate sophomore English courses.

2370 (67) Masterpieces in English Literature. (3-0) Credit, 3 hours.
The course is organized in three six-week units, treating respectively types of poetry, the novel, and the drama in English literature.

2380 (68) Masterpieces in American Literature. (3-0) Credit, 3 hours.
The course is organized on the same basis as English 2370, for a study of masterpieces in American literature.

JUNIOR-SENIOR COURSES

All junior-senior courses presume at least junior standing in English.

3313 (113) Advanced Composition. (3-0) Credit, 3 hours. A practical course designed to help students in other fields who find occasion to write term papers, reports, reviews, and summaries. While the major portion of the courses will be devoted to problems in expository writing, much
attention will be given to the student's individual needs, and the work
will be integrated, as far as possible, with his work in areas other than
English.

3315 (125) A Laboratory in Writing. (3-0) Credit, 3 hours. This course
which is also listed as Journalism 3315, is designed for those journalism
students who wish to continue in the magazine article writing field and
for those English students who are interested in the short story, the in-
formal essay, and poetry as creative writing types. The course is co-
operatively taught by the English and Journalism Department as a work-
shop designed to meet the needs and interests of the individual student.

3317 (117) English Grammar. (3-0) Credit, 3 hours. A study of modern
English grammar, with major emphasis on syntax, usage, and grammatical
nomenclature.

3319 (121) The Development of English. (3-0) Credit, 3 hours. A study
of the growth of the English language with particular emphasis on changes
in morphology, phonetics, vocabulary, syntax, semantics, and usage.

3323 (123) British and American Poetry Since 1900. (3-0) Credit, 3
hours. Reading and study of the more significant developments in British
and American poetry since 1900.

3324 (124) The English Lyric. (3-0) Credit, 3 hours. A study of
English prosody as exemplified in selected lyric poems from English and
American literature.

3328 (143) Types of World Drama in English (Modern). (3-0) Credit,
3 hours. The consideration of at least 30 significant examples of world
drama in English from Ibsen to O'Neill, Williams, and Miller.

3333 (127) Early American Literature. (3-0) Credit, 3 hours. Reading
and study of significant American prose and poetry from Anne Bradstreet
to Whitman.

3335 (129) Later American Literature. (3-0) Credit, 3 hours. Study of
the more important trends in American literature since the middle of
the nineteenth century, with emphasis upon the Rise of Realism.

3337 (149) The American Novel. (3-0) Credit, 3 hours. A study of the
history of the American novel from Cooper to the present, together with
the reading of a number of the more significant novels and books of cri-
ticism in the field.

3353 Elizabethan Non-Dramatic Literature. (3-0) Credit, 3 hours. A
study of the lyric and narrative poetry and prose of the sixteenth and
early seventeenth centuries.

3354 (133) Shakespeare. (3-0) Credit, 3 hours. A study of selected plays
from the earliest through Hamlet with emphasis upon the development
toward maturity of Shakespeare's dramatic skill.
3356 (134) Non-Dramatic Literature of the Seventeenth Century. (3-0) Credit, 3 hours. A study of the prose and poetry from Donne and Bacon to Milton and Dryden.

3358 (163) English Literature of the Eighteenth Century. (3-0) Credit, 3 hours. A study of the prose and poetry of the period with particular emphasis on the contributions of the principal writers to the analysis of modern problems.

3363 (137) The Romantic Poets. (3-0) Credit, 3 hours. Reading and study of the more significant contributions of the poets of the romantic period—Burns, Coleridge, Wordsworth, Byron, Shelley, Keats.

3365 (157) Significant Victorian Literature. (3-0) Credit, 3 hours. Study of the more significant developments in Victorian poetry and prose as these apply to the student's cultural background.

3367 (147) The English Novel. (3-0) Credit, 3 hours. A study of the history and development of the English novel from Defoe to the present, together with a reading of several of the more significant English novels.

3385 (135) Reading Materials in the Elementary Grades. (3-0) Credit, 3 hours. A study of traditional and creative literature for children from which newer and better materials for reading in the elementary grades may be drawn. A literary history of children's books designed to be of service to the student in book and story selection.

3387 (145) Reading Materials in the Junior and Senior High School. (3-0) Credit, 3 hours. A study of selected reading based on a survey of reading materials suitable for use in the junior and senior high schools, and an introduction to publications of particular value to the high school teacher of English.

Courses numbered 4000 plus have a prerequisite of six advanced hours of English.

*4334 (242) The Concord Writers. (3-0) Credit, 3 hours. A study of Emerson, Thoreau, and Hawthorne with attention to intellectual backgrounds and literary relationships.

*4352 (216) Chaucer and His Time. (3-0) Credit, 3 hours. Selected studies in the more important works of Chaucer, with an attempt to realize him as the most significant creator and social critic in an important literary and social era.

*4355 (233) The Later Shakespeare. (3-0) Credit, 3 hours. A study of the later period from the problem comedies through the tragedies to the

*May be taken as a graduate course with approval of the Dean of Graduate Studies.
serenity of the plays of the final years. The course will emphasize the reading in depth of the plays, significant critical material, and selected plays by Shakespeare's contemporaries.

*4357 (238) Milton. (3-0) Credit, 3 hours. Consideration of Milton's thought expressed in the longer poems and most important prose writing, especially as his thought affected the ideas of the writers and thinkers in the centuries following him.

*4361 The Brownings. (3-0) Credit, 3 hours. Their lives and works, including a study of the development of Robert Browning's dramatic poetry and Elizabeth Barrett Browning's poetic treatment of social and political questions of her time.

GRADUATE COURSES

**5321 (314) Contemporary Novel. (3-0) Credit, 3 hours. Prerequisite, 24 hours in English and graduate standing.

**5331 (311) Studies in American Poetry. (3-0) Credit, 3 hours. Prerequisite, 24 hours in English and graduate standing.

**5332 (312) Studies in American Prose. (3-0) Credit, 3 hours. Prerequisite, 24 hours in English and graduate standing.

**5357 (317) Studies in Elizabethan Drama. (3-0) Credit, 3 hours. Prerequisite, 24 hours in English and graduate standing.

**5359 (320) Studies in Eighteenth Century Literature. (3-0) Credit, 3 hours. Prerequisite, 24 hours in English and graduate standing.

**5364 (324) Studies in the English Romantic Movement. (3-0) Credit, 3 hours. Prerequisite, 24 hours in English and graduate standing.

**5366 (326) Studies in Victorian Poetry. (3-0) Credit, 3 hours. Prerequisite, 24 hours in English and graduate standing.

**5368 (325) Studies in Victorian Prose. (3-0) Credit, 3 hours. Prerequisite, 24 hours in English and graduate standing.

**5395 (329) Problems in Literary Criticism. Credit, 3 hours. This course is open to graduate students on an individual basis by arrangement with the department.

5699 (399) Thesis. Credit, 6 hours.

* May be taken as a graduate course with approval of the Dean of Graduate Studies.

**May be repeated once for additional credit.
The journalism program purports (1) to prepare teachers of journalism, (2) to train sponsors and supervisors for student publications in public schools, (3) to instruct public school administrators, teachers, and students for the professional journalism vocations.

Actual work on The College Star, student weekly newspaper, on the Pedagog yearbook and occasionally on professional daily and weekly newspapers constitutes much of the laboratory activity in the journalism program. The location of the college makes possible field trips to several large Texas dailies and magazines. All journalism majors and those taking journalism as a first or second teaching field are required to work on one college publication each semester.

To graduate with a major or teaching field in journalism, a student will be expected to enroll under either the curriculum for high school teachers leading to the degree of Bachelor of Science in Education (teaching field) or the general curriculum leading to the degree of Bachelor of Arts (major).

It is recommended that the minor or second teaching field be either social science or English, and that the student include foreign language in his program. All students intending to take a major or teaching field in journalism must have a working knowledge of typing before enrolling in Journalism 1313 or must be enrolled in a typing course.

The following courses are recommended for use as electives by students taking a major in journalism: Industrial Arts 1350 (Photography I), Industrial Arts 3350 (Photography II), Industrial Arts 2365 (Printing I).

BACHELOR OF SCIENCE IN EDUCATION DEGREE
(128 hours; includes certificate)

Notes:
1. Twenty-four hours are required of the journalism major.
2. A second field must be completed.
3. Fourteen hours must be completed in two of the following: science, mathematics, foreign language.
### JOURNALISM

#### Freshman Year

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<th>Course</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
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<td>Journalism 2383, 2385</td>
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#### Sophomore Year

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#### Junior Year

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<td>Journalism 4317 and 3 hours advanced</td>
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<td>Second field</td>
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#### BACHELOR OF ARTS DEGREE

(128 hours)

**Notes:**

1. Twenty-four hours in journalism are required.
2. A minor field must be completed.
3. A certificate is available with this degree but may require extra hours.
JOURNALISM

140

Junior Year

<table>
<thead>
<tr>
<th>Subject</th>
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<tr>
<td>Journalism, advanced</td>
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Senior Year

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<tr>
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<td>(or Bible), 3213</td>
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<td>Economics 2310 or</td>
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<td>Sociology 2310</td>
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<tr>
<td>Electives</td>
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28

1313 (13) **Reporting I.** (3-2) Credit, 3 hours. This is a course in fundamentals to acquaint the student with newspaper traditions, practices, and objectives as well as techniques of news gathering, interviewing, and writing the various types of news stories. Each student is required to handle assignments of reporting for The College Star.

1374 (74) **Reporting II.** (3-2) Credit, 3 hours. This course is concerned with the more complex and difficult types of news stories, including sports, reviews, criticisms, feature interviews and editorials. It is primarily a laboratory course designed to perfect the student's news writing skills and techniques. Attention also is given to the ethics of reporting and the obligations of the competent journalist.

Prerequisite: Journalism 1313.

2190, 2191, 2192 (70, 71, 72) **Publications Laboratory.** (0-3) Credit, 1 hour each. These courses, which may not be taken at the same time, are designed to help the journalism student polish the reporting and editing talents acquired during the first two years of his training and to give him practical experiences in yearbook work.

2383 (83) **News Editing I.** (3-2) Credit, 3 hours. This course provides instruction in copy reading, proof reading, headline writing and newspaper make-up.

Prerequisite: Journalism 1374.

2385 (85) **News Editing II.** (3-2) Credit, 3 hours. In addition to laboratory experiences on The College Star to perfect the techniques studied in Journalism 2383, this course emphasizes make-up problems, evaluation of news, and law of the press. Careful study is made of many daily and weekly newspapers and how they reflect or fail to reflect skill in editing.

Prerequisite: Journalism 2383.

3315 (125) **A Laboratory in Writing.** (3-0) Credit, 3 hours. See English 3315.

3319 **Picture Editing.** (2-4) Credit, 3 hours. An understanding of news as it may be communicated by an integration of words and pictures is
developed in this course. Areas studied include the history and development of photojournalism, outstanding photojournalists and their work, graphic techniques and printing processes, pictorial layout in magazines and newspapers, the practical use of photographs and new ideas in and the future of photojournalism.

3323 (123) Feature and Magazine Article Writing. (3-0) Credit, 3 hours. This course is concerned with the techniques of writing and marketing special features and articles.

3327 (127) Public School Publications. (3-0) Credit, 3 hours. A study is made in this course of the problems of publishing various types of school publications including financing, staffing, and actual production activities. Consideration is given to the production of the printed, duplicated, and section-of-the-town paper types of school newspapers as well as the letterpress and offset annuals.

3333 (133) The Press and Contemporary Affairs. (3-0) Credit, 3 hours. Explanation and interpretation of current events as a function of the press is the chief concern of this course. A critical study is made of contemporary local, state, national, and international problems and how they are treated by newspapers and news magazines.

3357 (157) Advertising. (3-0) Credit, 3 hours. The fundamentals of advertising are considered, and special attention is given to advertising techniques for the mass media. Copy preparation, headlines, use of artwork and layout theories for newspaper and magazine advertising will be stressed. Attention also will be given to direct mail, radio, outdoor, and other types of advertising. This course may be taken as an elective in the Business Administration Department.

4317 (217) The Practicing Journalist. (0-6) Credit, 3 hours. This is a senior-level course for journalism majors who have completed 18 hours of their prescribed journalism courses. The student who plans eventually to seek employment with a newspaper is assigned to a newspaper in the San Marcos area for a prescribed number of hours of practical work. The student who plans to teach journalism will be assigned to help supervise and publish the Rattler, official weekly publication of the San Marcos High School. Opportunities for other advanced assignments will present themselves, possibly in radio or public relations, through which the student may receive valuable practical experience in a real-life situation. By special permission of the department head the student may be allowed to do his work on The College Star or the Pedagog. In every instance, the instructor of the course will keep close liaison with the "employer" and will assist and instruct the "practicing" student journalist in every way possible.

4321 (221) Workshop in Practical Public Relations. (3-0) Credit, 3 hours. This course is designed to acquaint students with sound public relations theories and practices. Primary emphasis is placed on providing a practical knowledge of organizing and carrying out the various activities
which would be embodied in a public relations program. Stress is given problems confronting public schools, the use of publicity media by schools, and the relationships between schools and their various publics. A comprehensive study dealing with the media of communications and how to place publicity material in them is included in the course.

Journalism student gains experience covering sports event from press box.
The Department of Speech serves the following purposes:

1. Provides service courses in the fundamental processes of oral communication, in logical thinking, in oral reading, in dramatic appreciation, and in costume design. Some of these courses are required in various curricula, others may be taken as electives.

2. Furnishes training especially designed for potential teachers, leading to a Bachelor of Science in Education degree. Students who pursue this program using speech either as a first or second teaching field, will be asked to take courses in theatre arts, public address, voice and diction, and interpretative reading, preparing them for the multiple demands of teaching.

3. Provides for those who desire to major or minor in speech for cultural reasons or in preparation for such professions or vocations as the law, the ministry, the theatre, or radio and television, in which speech plays an important part. Normally these students will direct their courses toward a Bachelor of Arts degree. Each program will be determined separately by the chairman of the department in view of the needs and desires of the individual student.

4. Provides extra-curricular programs in forensics and theatre arts. These may arise out of courses in the department, but any student may participate in them regardless of whether or not he is enrolled in any speech course.

**BACHELOR OF SCIENCE IN EDUCATION DEGREE**

(128 hours; includes certificate)

**Notes:**

1. Thirty hours are required in speech, of which at least 12 are advanced.

2. A second teaching field must be completed.

3. Fourteen hours minimum are required in two of the following: science, mathematics, foreign language.

* On leave 1963-1964
### Freshman Year

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<th>Course</th>
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<td>English 1310, 1320</td>
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<td>History 1310, 1320</td>
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<td>Science, Mathematics or Foreign Language</td>
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### Sophomore Year

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32-34

### Junior Year

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<td>Education</td>
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32

### Senior Year

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### BACHELOR OF ARTS DEGREE

(128 hours)

**Notes:**

1. Thirty hours in speech are required, of which at least 12 are advanced.
2. A minor field must be completed.
3. A teaching certificate is available with this degree but may require extra hours.

### Freshman Year

<table>
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<th>Course</th>
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<td>English 1310, 1320</td>
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<td>History 1310, 1320</td>
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<td>Biology 1410, 1420</td>
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34

### Sophomore Year

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30-31
### Junior Year

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**1310, 1311 (13, 13X) Fundamentals of Speech.** (3-0) Credit, 3 hours. A first course in speech. Study aims at understanding of speech fundamentals and practice in employing the techniques involved. Most students will take 1310. Those who, upon examination, exhibit language difficulty will be assigned to 1311. Students who previously had speech training will normally be enrolled in 1320, described below. Speech 1311 and 1320 may be substituted in any curriculum in the college which specifies Speech 1310.

**1320 (15) Speaking and Reading.** (3-0) Credit, 3 hours. This is a course in the basic principles of speech, especially designed for those who have had previous speech training or experience qualifying them to work at a higher level than in 1310. Study of the theories of oral reading, public speaking, voice and diction, visible action, and group discussion will be combined with practice in a variety of speech activities.

**1325 Basic Public Speaking.** (3-0) Credit, 3 hours. This course is designed to further student skills in various kinds of public speaking, developing craftsmanship in construction and delivery.

**1350 (18) Introduction to Theatre Practice.** (3-2) Credit, 3 hours. An introductory course in the art and aesthetics of the theatre, required of almost all speech majors and minors, and strongly advised for those who may later be called upon to direct plays or those who wish to acquire drama appreciation. The course includes an introduction to play analysis, acting, stagecraft, directing, and production. Participation in college productions is a part of the course.

**2310 (57) Voice and Phonetics.** (3-2) Credit, 3 hours. This course pertains to the human voice and the sounds of speech. The student's own voice and pronunciation will be the subject of attention, along with study of regional divisions of American pronunciation. The International Phonetic Alphabet will be used as a tool in transcribing speech.

**2325 (67) Debate.** (3-2) Credit, 3 hours. The course is devoted to a study of the fundamental theories and techniques of debate, as it is practiced in secondary school and in college and as its principles are employed in numerous non-educational activities. Students will do laboratory work with the college forensic squad.
2330 (69) Discussion. (3-2) Credit, 3 hours. This course explores the theory and techniques of discussion, group dynamics, and public discussion. Laboratory work will be in connection with the college forensic squad.

2350 (75) Acting. (3-2) Credit, 3 hours. This course is a study of the principles involved in forming a workable theory of acting and the application of these principles through the development of technical skill. Participation in college productions is a part of the course.

2355 (79) Stagecraft. (3-2) Credit, 3 hours. This course is intended to give a working knowledge of the technical procedures in the mounting of a play. Consideration is given to scenery construction and painting, electricity and lighting, properties, sound, stage effects, and costume construction. Participation in college productions is a part of this course.

3310 (132) Fundamentals of Speech for Teachers. (3-0) Credit, 3 hours. This course is designed especially for experienced teachers who have had little if any course work in speech. It deals with the basic fundamentals of speech as reflected in the student and also as applied in his capacity as a teacher. It fulfills (in lieu of Speech 1310) the mandatory speech requirement in most curricula. It may not, except with special permission, be taken by anyone who already has credit in one or more speech courses.

3315 (149) Interpretative Reading. (3-0) Credit, 3 hours. An advanced study in the problems of oral interpretation. Consideration is given to the interpretation of various types of literature. Members of the class are encouraged to read in audience situations outside the classroom and to take part in intercollegiate competition.

3325 (120) Advanced Public Speaking. (3-0) Credit, 3 hours. This course is geared to the needs of persons with such vocations as law, sales, ministry, executive positions, and teaching which require ability in public speaking. Special consideration will be given to speech models, communication, theory, and laboratory experience.

3328 (143) Types of World Drama in English (Modern). (3-0) Credit, 3 hours. See English 3328.

3330 (131) Persuasion. (3-0) Credit, 3 hours. The techniques of advocacy, including evidence gathering, logical reasoning, ethical and emotional persuasion, the use of language, and persuasive delivery are studied in this course.

3350 (110) Theatre Design. (3-2) Credit, 3 hours. This is a course in the designing of the complete play, with emphasis on styles of staging. Attention is given to the design of the setting, costumes, lighting, properties, and make-up and to their relationship to the complete play. Participation in college productions is a part of this course.

*3355 (129) Playwriting. (3-2) Credit, 3 hours. This course will be devoted to play fundamentals (structure, dialogue, and mechanics), and to guidance and discussing representative plays.

*May be repeated once for additional credit.
3360 (137) Directing. (3-2) Credit, 3 hours. This course is a study of theatre directing and directors. Emphasis is placed on play analysis for production including the study of styles and methods. Members of the class will participate in college productions.

3370 (157) Creative Dramatics for Children. (3-0) Credits, 3 hours. This course is designed for the study of creative drama in the elementary school, which has as its main objective total growth of the child. Opportunity for actual work with children in a creative dramatic situation will be given. Attention will also be given to Theatre for Children.

4310 (213) Teaching of Speech. (3-0) Credit, 3 hours. This course is designed to meet the needs of teachers of speech in the public schools. Emphasis is placed on a well-developed speech program for the grades and high school; and consideration of methods and materials for the diagnosing and improving of speech.

*4315 (265) Problems in Speech. (3-0) Credit, 3 hours. A student registered for this course will take for exploration and research some problem in speech, normally in the directing of speech activities.

*4320 (279) Directing Speech Activities. (3-2) Credit, 3 hours. This course is designed to assist any teacher, whether of speech or some other subject, in directing the speech activities which may be turned over to him. During the course those in the class will actually direct debate, plays, declamation, and other activities.

4350 (233) The Development of the Theatre. (3-0) Credit, 3 hours. This course affords students an opportunity to make a survey of the theatre from the primitive civilization to the present. A study is made of the theatre and its place in the social and cultural evolution.

4355 (237) Advanced Directing. (3-2) Credit, 3 hours. An advanced study of the problems, and practice in directing the complete theatre production. Members of the class will direct and participate in college productions.

*4360 (275) Problems in Theatre. (3-0) Credit, 3 hours. This course is designed to give supervised experience to qualified advanced students in theatre history, playwriting, directing, acting, technical, or other theatre problems. Research problems or actual production problems may be chosen

*May be repeated once for additional credit.
COURSES IN SPEECH (CORRECTIVE)

This college has been authorized by the Texas Education Agency to prepare qualified speech and hearing therapists and teachers of the orthopedically handicapped. Students working for a bachelor's degree with certification in this area of special education, should consult the appropriate advisor for early and careful planning of their courses of study. A full major in speech and hearing therapy is offered both at the undergraduate level and for the master's degree.

The speech and hearing clinic of the college provides ample opportunity in both the regular and summer sessions for securing needed clock hours of clinical practice with clients of various types under the supervision of persons holding advanced certification in the American Speech and Hearing Association. During summer sessions eminent guest professors and consultants participate in the cooperative educational and therapeutic program with teachers, clinicians, parents, and children.

The physical equipment for observation, demonstration, lecture and therapy is modern and excellent. Opportunity for observation and directed teaching are available, not only in the public schools of San Marcos, which have a well-developed program of special education, but also because of their geographic proximity to the college, in special schools for exceptional children. The director and the supervisor of the Speech and Hearing Clinic are consultants in speech and language therapy at Baptist Memorial Hospital in San Antonio, Texas, and at Texas Rehabilitation Center in Gonzales, Texas. Through these affiliations, student therapists from this college may participate as interns in these therapy centers.

Note: Advanced clinical courses beyond 2361 are not applicable toward a degree, unless the student completes the requirements for certification.

1331 (31) Introduction to Speech Correction. (3-0) Credit, 3 hours. This course introduces students to the areas of remedial speech. It is a survey of speech, hearing and language disorders, including etiology and therapy. It is required of all students planning to prepare for certification in speech and hearing therapy.

2359 (59) Phonetics. (3-0) Credit, 3 hours. This course will comprise a detailed study of the phonemes of American-English speech. Proficiency in use of the alphabet of the International Phonetics Association will be emphasized.

2361 (61) Speech Correction. (3-0) Credit, 3 hours. This course offers a study of principles and methods of diagnosis, evaluation, and therapy for speech, hearing and language disorders.

3325 (125) Vocal Anatomy. (3-0) Credit, 3 hours. This course offers a description and explanation of the human mechanism by which speech is produced.
3367 (167) Clinical Methods and Practice in Speech Correction I. (3-4) Credit, 3 hours. Supervised practice in the clinic with persons of various ages and diverse types of speech disorders. Students may begin in this course to acquire the clinical clock hours required for state and ASHA certification. Two weekly lecture periods will emphasize principles and methods of testing, evaluating, and treating pupils with speech disorders in public schools. A student expecting to meet the state or ASHA requirements of 200 clock hours of supervised clinical practice should plan to acquire a minimum of 75 such hours in this course if taken in the long semester and 50 if taken in a summer session.

3389 (189) Problems and Methods in Auditory Testing and Aural Rehabilitation. (3-0) Credit, 3 hours. This course introduces the student to basic audiology, anatomy of the hearing mechanism, and hearing disorders.

4301 (201) Speech Pathology. (3-0) Credit, 3 hours. A study of the nature and underlying causes of defective speech offering an opportunity for students with basic training in speech therapy to investigate the etiologies and therapies advanced by the outstanding authorities in the profession. Contrasting aspects of speech pathology will be studied to encourage the student to think critically and develop an analytic viewpoint. Clock hours of clinical practice with cases having organic speech disorders may be obtained in this course, the number of such hours depending upon the student's needs for certification and professional growth.

4363 (263) Differential Diagnosis of the Communicative Problems of Physically Handicapped Pupils. (3-0) Credit, 3 hours. A study of the nature and underlying causes of communicative problems associated with physical disorders. Special emphasis will be given to the interdisciplinary approach to the evaluation of pupils with neurological involvement. Visiting lectures from the medical profession will assist in the presentation of the course.

4367 (267) Clinical Methods and Practice in Speech Correction II. (3-4) Credit, 3 hours. Continuation of two lecture periods a week and supervised clinical practice begun in Speech 3367. A student expecting to meet the state or ASHA requirements of 200 clock hours of supervised clinical practice should plan to acquire a minimum of 75 hours in this course if taken in the long semester and 50 if taken in a summer session.

4369 (269) Teaching Language to the Hearing Impaired. (3-0) Credit, 3 hours. This is a course especially designed to train teachers in methods of developing associations between meaning and linguistic symbols in pupils with hearing losses.

4371 (271) Auditory Training and Speech Reading. (3-0) Credit, 3 hours. This is a course in methods of teaching those with hearing deficits to use their residual hearing and visually comprehend the speech of others.

4373 (273) Structured Language for the Physically Handicapped and Slow Learner. (3-0) Credit, 3 hours. This course deals with the basic
factors of oral and written English: vocabulary, syntax, rhythm, and intonation, and sound elements that create academic difficulties for pupils with specific language disorders deriving from environmental influences or neurological impairment.

4387 (287) Speech and Language Disordered School Children. (3-0) Credit, 3 hours. This is a non-professional course to acquaint students with the nature of disordered speech and language, and to enable them to identify those persons who should be referred for further diagnosis and treatment of speech, voice, or language disorders.

5301 (301) Advanced Speech Pathology. (3-0) Credit, 3 hours. This course will provide graduate students who have had Speech 4301 an opportunity to advance their knowledge in a specialized area of speech pathology such as stuttering, cleft palate, or voice disorders. This course may be taken only after conference with the director of the speech clinic to determine the needs of the student. This course requires clock hours of supervised practicum with cases having the disorder being studied, the number of such hours to be arranged in the light of the student’s needs.

5343 (343) Advanced Clinical Practice in Speech and Hearing Therapy I. (3-4) Credit, 3 hours. This course is for graduate students who hold provisional certification in speech therapy and wish to increase their professional competence in clinical practice, leading to professional certification. Clock hours may be obtained with cases having types of speech and language disorders which stimulate an advanced level of specialized study.

5345 (345) Advanced Clinical Practice in Speech and Hearing Therapy II. (3-4) Credit, 3 hours. A continuation of Speech 5343, in which the student will make a thorough study of one type of speech, language or voice disorder. Therapy with representative clients as well as research of the literature will be required.

5361 (361) Research in Speech and Hearing Therapy. (3-0) Credit, 3 hours. A critical and thorough investigation of an area of speech and hearing therapy with some original experimentation required. This course is required of all graduate students in speech and hearing therapy who are candidates for the degree of Master of Education.

5699 (399) Thesis. Credit, 6 hours.
The Art Department offers to those majoring in art a well-balanced program. It offers to all students an opportunity to acquire an appreciation of the aesthetic values in life, and in so doing, broadens their horizons, enriches their major fields, and make them cognizant of the fact that art is an integral part of their daily living.

All art majors must have their programs approved by the Director of the Department. In addition to meeting the course requirements art education majors are expected to participate in department exhibits and other departmental activities.

In addition to the degrees outlined below, the Bachelor of Arts degree is available. For information consult the Dean of the College.

### BACHELOR OF SCIENCE IN EDUCATION DEGREE

(128 hours; includes certificate)

**Notes:**

1. Thirty hours in art are required.
2. A second teaching field (minor) must be completed.
3. Fourteen hours minimum are required in two of the following: science, mathematics, foreign language.

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<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
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<tr>
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<td>Art 2354, 2359 or 2363</td>
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32-34 | 32-34
### ART

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**32-34**

### BACHELOR OF SCIENCE IN EDUCATION DEGREE

(128 hours; includes certificate)

**Notes:**

1. Thirty-six hours in art are required.
2. Certification is in art only.
3. Fourteen hours minimum are required in two of the following: science, mathematics, foreign language.
4. All of the industrial arts courses or all of the speech courses must be completed.

### Freshman Year

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### Sophomore Year

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30-34

**30-34**
BACHELOR OF SCIENCE IN COMMERCIAL ART  
(128 hours)

Notes:

1. Completion of a minor field will be strongly encouraged.

2. The use of electives should be decided only after a conference with the department chairman.

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| Sophomore Year                |       |                                        |       |
| Art 2354, 2359, 2266          |       |                                        |       |
| Industrial Arts 1350          |       |                                        |       |
| English (literature)          |       |                                        |       |
| Government 2310, 2320         |       |                                        |       |
| Science                       |       |                                        |       |
| Physical Education            |       |                                        |       |

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<th>Senior Year</th>
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1227 (27) **Ceramics I.** (0-4) Credit, 2 hours. This is an introductory course in ceramics. The course includes study and practice in hand-built methods of pottery, learning to use the potter's wheel, glazing and firing.

Art 1227 is open without prerequisite to all students.

1310 (10) **Basic Illustration.** (3-3) Credit, 3 hours. A comprehensive study of the drawing of the figure, singly and in groups. Various mediums and approaches will be used.

1313 (13) **Basic Course in Drawing and Design.** (1-5) Credit, 3 hours. This course is designed primarily to acquaint the student with fundamentals of design and drawing with emphasis on creative expression.

1314 (14) **Contemporary Design.** (3-3) Credit, 3 hours. This course is concerned with the integration of the essentials of design. It presents an introduction to drawing, color mixing, and basic techniques.

1317 (17) **Survey of Arts.** (3-0) Credit, 3 hours. This is an introductory course in the arts of the past and present and their relation to the
life of the period. The intent is to aid the student in realizing the need of art in the development of happier human relations and a fuller enjoyment of life in general.

This course is open without prerequisite to all students.

1321 (21) **Drawing and Painting.** (1-5) Credit, 3 hours. A course in drawing and painting, subject matter unrestricted.

2266 (66) **Advertising Art and Lettering.** (2-2) Credit, 2 hours. A laboratory course beginning with manuscript writing as it is used in the primary grades, and developing into the more complex forms of lettering as used in posters, advertisements, and library lettering. Recommended for all students preparing for teaching, library science, and drama.

2273 or 2373 (73) **History of Art I.** (3-0) Credit, 2 or 3 hours. A study of the arts of ancient and medieval cultures. Open to all students.

Field trips.

Approval of the director of the department.

2354 (54) **Design.** (0-6) Credit, 3 hours. The study of the essential problems in design. The course includes interpretation of form, space and color through a variety of techniques and media.

Prerequisite: Art 1313 or 1314 or equivalent.

2359 (59) **Graphic Arts.** (0-6) Credit, 3 hours. Techniques of block printing, lithography, and etching.

Prerequisite: Art 1313 or 1314 and 2354 or equivalent.

2361 (61) **Art in the Home.** (3-2) Credit, 3 hours. In this course, the student will work with practical problems concerning functions design, psychological and emotional aspects of colors, and appreciation of art in relation to the home and home furnishing.

2363 (63) **Creative Crafts.** (0-6) Credit, 3 hours. Problems in leather, metal and elementary jewelry work.

Prerequisite: Art 1313 or 1314.

3310 (110) **Figure Drawing.** (3-3) Credit, 3 hours. A course designed to acquaint the student with the drawing of the human anatomy. Recommended for students of art, drama, dance, costume design, and pre-medicine.

3311 (111) **Illustration.** (3-3) Credit, 3 hours. Work from the model and other sources of reference toward the development of techniques of drawing for publication. Both decorative and realistic approaches to the field will be considered.

3321 (121) **Oil Painting.** (0-6) Credit, 3 hours. Subject matter unrestricted; individual and group criticism.

Field trips.

Prerequisite: Art 2354 or approval of the director of the department.
3323 (123) **Art for the Elementary Classroom.** (3-3) Credit, 3 hours. Study of the organization, evaluation and the function of the creative arts in the elementary school curriculum. Opportunity to work with materials and equipment, and observation in the elementary schools.

Field trips.

3325 (125) **Art in Junior and Senior High School.** (3-0) Credit, 3 hours. This course has the distinct function of assisting students to integrate the knowledge and skill which they have acquired in art courses with those which they have obtained in their educational theory courses. Observations, extensive and intensive reading and preparation for directed teaching in art are major parts of this course.

Field trips.

This course should precede directed teaching.

3327 (127) **Ceramics II.** (0-6) Credit, 3 hours. This course provides for study and practice in hand-built methods in pottery, skill in using the potter's wheel and problems in glazing.

Prerequisite: Junior standing.

3329 (129) **Ceramics III.** (0-6) Credit, 3 hours. This course offers opportunity for development in the field of ceramic forms, study and application of glazes and casting methods.

Prerequisite: Art 3327.

3337 (137) **Weaving I.** (0-6) Credit, 3 hours. This course provides for the opportunity to do creative problems in weaving. Special attention is given to design, texture, and colors.

Prerequisite: Junior standing.

*4311 (211) **Advanced Illustration.** (3-3) Credit, 3 hours. Extension of Art 3311 with the execution on professional level of projects for books, periodicals, and other publications.

4321 (221) **Painting.** (3-3) Credit, 3 hours. This course is designed for advanced students of graduate or undergraduate level, who are capable of developing a problem in painting.

Prerequisite: Art 3321 or approval of the director of the department.

*4363 (163) **An Honor Course in Special Problems in Art or Crafts.** (0-6) Credit, 3 hours. Intensive work of an individual character. The subject is determined by the grade points, interests and quality of art work of the student, and approval of the director of the department.

Prerequisite: Six hours in art and Junior standing.

*4365 (165) **Metal and Lapidary Work.** (0-6) Credit, 3 hours. This course consists of creative design problems in metals such as copper, brass, and silver. The lapidary work consists of the selection, cutting, * May be repeated once for additional credit.
polishing, and mounting of semi-precious stones. This course is offered on an individual basis by arrangement with the director of the department.

Prerequisite: Art 2354 and 2363 or equivalent.

4370 (170) Watercolor Painting. (0-6) Credit, 3 hours. Subject matter unrestricted, individual and group criticism.

Prerequisite: Art 2354 or approval of director of the department.

4383 (183) History of Art III. (3-0) Credit, 3 hours. A study of the art epochs from 1800 to the present, including Romanticism, Realism, Impressionism and other contemporary movements. (Special emphasis is placed on art in the United States).

Field trips.

Offered in alternate odd years.
The Department of Music has for its primary objective the training of teachers for the public schools and for that purpose offers curricula designed for students wishing to make a major or minor of music education with emphasis (a) upon vocal music or (b) upon instrumental music. The curriculum stressing vocal music includes (1) preparation for teaching music in the elementary grades, (2) training and directing choral organizations in the junior and senior high school, and (3) teaching courses in theory, history and appreciation. The curriculum emphasizing instrumental music includes (1) preparation for teaching preparatory band and orchestral instruments, (2) training and directing beginning and advanced orchestras and bands, and (3) teaching courses in theory, history and appreciation.

For the general student, that is, for the one making neither a major nor a minor of music, ample provision is made for music study according to his interests and abilities.

Majors in Music

Students wishing to major in music may do so under one of the curricula leading to the degree of Bachelor of Music Education, or under the curriculum leading to the degree of Bachelor of Science in Education or under the general curriculum leading to the degree of Bachelor of Arts.

A student wishing to specialize in Public School Music, that is, to qualify to teach vocal and instrumental music in all of the grades of the public schools may do so by enrolling under the curriculum leading to the degree of Bachelor of Music Education, or the curriculum leading to the degree of Bachelor of Science in Education with a major in music.

A student wishing to offer a major in music theory or applied music in partial fulfillment of the requirements for graduation with a degree of Bachelor of Arts will be expected to meet requirements as prescribed for such a major in conference with the head of the department.

Minors in Music

Students wishing to materialize a concentration or minor in music under the curriculum for elementary teachers will be expected to follow
the prescriptions for such a minor outlined under Curriculum for Elementary Teachers Leading to the Degree of Bachelor of Science in Education, Section on Music.

All others wishing to offer music as a minor in partial fulfillment of the requirements for graduation will be expected to meet requirements for such a minor as prescribed for them in conference with the Chairman of the department.

A teaching minor for music majors may be had with the advice of the departmental chairman.

**FRESHMAN ADMISSION**

Students are admitted to a curriculum with a major or minor in music on evidence of a degree of talent in the field.

**TRANSFER STUDENTS**

All work in music transferred to this college must be validated by successful completion in this college of more advanced courses in each of the several areas of instruction included in the respective curriculum under which the student proposes to graduate.

**Music for Non-Music Majors**

To students majoring in areas outside music, the Music Department offers elective courses in music, band, choir, chorus, orchestra, and applied music lessons in band and orchestral instruments, organ, piano and voice.

Opera Workshop. The opera workshop is an extra-curricular service provided by the department to give students experiences they will need in teaching (operettas, musicals and operas). Each year music students from the department participate in the operas in conjunction with the San Antonio Symphony Opera Festival.

Chamber Music. Small ensembles are formed because of various needs for specific occasions (quartets—vocal and instrumental, piano duos, brass ensembles, wood wind ensembles, and madrigal groups).

Music 2367, 3237, and 3239 are open to non-music majors or minors as electives.

**Scholarships**

Music scholarships are available through competitive audition for the faculty of the Music Department, Fine Arts Building. These scholarships are provided from:

Music Scholarship Fund
The Max Reiter Scholarship Fund
The Phi Mu Alpha Sinfonia (Gamma Phi Chapter Fund)
Mu Phi Epsilon (Girl Music Society Fund)
The Archie Grusendorf Scholarship Fund

Full and partial scholarships are available. For further information please contact the Chairman of the Music Department.

CURRICULUM LEADING TO THE DEGREE OF
BACHELOR OF MUSIC EDUCATION
(128 hours; includes certificate)

Teacher Education Program

Notes:
1. The music major requires 48 semester hours as a minimum.
2. No minor is required.

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Six hours of electives in music are permissive.

Of the 128 semester hours of work required for graduation, 40 hours must be advanced.

For all-level certification, that is, to teach music in all 12 grades of the public schools of Texas, the student is required at the time of his graduation with a major in music to be able to exhibit credit earned in Music 3340, in one course in Elementary Education (Education 3311, The Elementary Learner: His Growth and Development, unless given permission to substitute another course for it), and in Education 4380, Directed Teaching (Elementary).

**ENSEMBLES**

Ensembles constitute an important portion of the music program and are composed of the band, orchestra, choir, and chorus. One hour of credit per semester is granted toward graduation for participation in ensemble work, although the student may be in more than one ensemble. In enrolling for an ensemble the student is expected to identify it on his schedule by name.
Requirements in ensemble:

1. All music majors must belong to a major ensemble each semester.

2. All music majors and minors must participate in minor ensembles (brass, woodwind, voice, etc.) until a proficiency level of ensemble work has been attained.

APPLIED MUSIC

Private Lessons. Instruction is available for music students in applied music in piano, organ, voice, band and orchestral instruments. The instruction may be for one lesson or two lessons weekly, carrying one or two semester hours credit.

Class Lessons. These courses are offered primarily to assist students in meeting minimum requirements in secondary fields and are offered in piano, organ, voice, strings, brass, woodwinds, and percussion. Two one-hour class meetings are required per week with one semester hour as credit. Though these lessons are ordinarily for music majors and minors, the general student may be registered for them.

PROFICIENCY EXAMINATIONS

Proficiency examinations in all applied music, given by faculty members of the particular areas, must be passed at the end of the junior year.

All music majors and minors are required to take jury examinations each semester.

All music majors must pass departmental proficiency examinations in their secondary areas according to departmental satisfaction. Failure to reach this proficiency level requires the student to continue in the secondary area with no credit until the requirements have been met.

MUSIC FEES

(In addition to registration fees)

Piano, organ, voice, band or orchestral instruments:

- Two (one-half hour) lessons per week: $35.00 per semester
- One (one-half hour) lesson per week: 18.00 per semester
- Music practice fee: 2.00 per semester

For non-music major or minor, applied music fee (class lessons): 8.00 per semester
RECITALS

Student recitals will be given each Thursday evening. These recitals are comprised of the piano, instrumental and vocal areas as well as small ensembles. Senior students in applied music must give full recitals.

Visiting Artists, visiting alumni, and faculty presents monthly recitals and lectures.

The Allied Arts Concerts and attractions are available for all students.

The San Marcos Civic Music series is available to all students.

Attendance for these recitals and attractions, provided for the benefit of the music students, is required. Therefore, each student must attend 75% of these performances.

COURSES IN MUSIC

(HISTORY·LITERATURE—THEORY·CONDUCTING)

All advanced courses presuppose junior standing and credit for Music 2361, 2362, unless indication is made to the contrary in reference to any given course.

1101, 1102 (1, 2) Survey of Music Literature. (2-0) Credit, 1 hour each. A study, through listening to recordings and personal performance, of the characteristic examples of music literature with emphasis on greater enjoyment and understanding. The aim of this course is to provide a rich background of experience with music in order that theoretical and applied study may be more meaningful.

This course is required of students making a major or minor of music and is open for elective credit to others.

1311, 1312 (11, 12) Fundamentals of Music. (3-0) Credit, 3 hours each. A course in sight singing, ear training, dictation, keyboard and written harmony emphasizing diatonic chords. Creative writing in small instrumental and vocal forms. Analysis, contrapuntal implications.

This course is required of students making a major or minor of music and open for elective credit to others. Music 3311, which may be elected for credit independently of Music 1312, is required of all students enrolled under the curriculum for Elementary Teachers.


Prerequisite: Music 1312 or equivalent.
2367 (67) Music History and Appreciation. (3-0) Credit, 3 hours. A study of the origin and development of the chief vocal and instrumental forms of music literature representative of the various epochs of musical history, designed to net the student a greater appreciation of the many types of music that he hears today.

Open to all students of at least sophomore standing, but not for credit for students majoring in music except by special permission of the Chairman of the Music Department.

3207 (107) Fundamentals of Conducting. (2-0) Credit, 2 hours.

3217 (117) Instrumental Conducting. (2-0) Credit, 2 hours. For instrumental music majors and minors. Score reading, interpretation, etc.

Prerequisite: Music 3207.

3227 (127) Choral Conducting. (2-0) Credit, 2 hours. For vocal majors and minors. Score reading, interpretation, etc.

Prerequisite: Music 3207.

3231, 3232 (131, 132) Form Analysis. (2-0) Credit, 2 hours each. Analysis of the structure of the chief musical form simple binary and ternary forms through the sonata form. Homophonic and polyphonic analysis. Creative writing for illustrative purposes.

The first half of this course may be elected for credit independently of the second half.

Note: Music 3232 is available to graduate students as 3232g, a variant of 3232 carrying three hours of credit.

3237, 3239 (137, 139) The History of Music. (2-0) Credit, 2 hours each. A study of the development of music from the earliest historical records to the present time.

Either half of this course, independent of the other, may be taken for two semester hours of credit.

Note: Music 3239 is available to graduate students as 3239g, a variant of 3239, carrying three hours of credit.

3340 (140) Elementary Music Literature. (3-0) Credit, 3 hours. A survey of outstanding literature on the subject of elementary music, with special attention given to the most recent publications in the field.

3341 (141) Advanced Music Literature. (3-0) Credit, 3 hours. A comprehensive survey of music literature at the advanced level. In addition to an examination of traditional music, an attempt will be made to locate outstanding music of contemporary writers.

3353 (153) Instrumental Organization: Problems and Techniques. (3-0) Credit, 3 hours. The study of all phases of the instrumental music program.
4303 (203) **Advanced Theory Review.** (3-0) Credit, 3 hours. A review of the basic principles of diatonic and chromatic harmony, form analysis, and counterpoint. Emphasis is placed upon the application of these principles to teaching in the classroom and studio and in rehearsing bands, orchestras, and choirs.

4313 (213) **Survey of Twentieth Century Music.** (3-0) Credit, 3 hours. The purpose of this course is to place emphasis upon music of the modern period and to trace its development from music of earlier periods. Numerous examples of vocal and instrumental works in both large and small forms are used to illustrate twentieth century styles and trends.

4315 (215) **Orchestral and Choral Arranging.** (3-0) Credit, 3 hours. Designed to acquaint the student with principles of orchestral and choral writing and arranging, to enable him to read orchestral and vocal scores, and to edit vocal and instrumental music with emphasis upon music suitable for the public schools.

4323 (223) **Tests and Measurements in Music.** (3-0) Credit, 3 hours. An examination of the available achievement and aptitude tests in music.

4333 (233) **Counterpoint.** (3-0) Credit, 3 hours. Elementary counterpoint with emphasis upon knowledge and appreciation of counterpoint as encountered in teaching and in performance. Writing and analysis.

4335 (235) **Composition.** (3-0) Credit, 3 hours. Practice in the smaller forms to develop creative talent and interest and to enhance the student's appreciation of the art for purposes of teaching.

4349 (249) **Introduction to Musicology.** (3-0) Credit, 3 hours. This introductory course in musicology differs from the other courses offered by the Department of Music in that it attempts a synthesis of all music knowledge with particular emphasis on musical acoustics, psychology, musical aesthetics, traditions of interpretation, and the philosophy of music history. It is a survey course in the field of musical research that concerns itself primarily with music as an art and as a science.

4351 (251) **Problems in Music.** (3-0) Credit, 3 hours. This course offers the student the opportunity to pursue the study of one or more problems in music that hold especial interest for him or offer opportunity for professional improvement and growth. (Conducted as a seminar course.) This course is open to music students on an individual basis by arrangement with the department.

4353 (253) **Problems in Music.** (3-0) Credit, 3 hours. This course offers the student the opportunity to pursue the study of one or more problems in music that hold especial interest for him or offer opportunity for professional improvement and growth. (Conducted as a seminar course.) This course is open to music students on an individual basis by arrangement with the department.
4389 (289) Supervision of the Public School Music Program. (3-0) Credit, 3 hours. A course planned primarily for music supervisors and for music teachers. Open also to school superintendents and principals who desire to become familiar with music problems in the public school. Attention will be given to the organization and administration of all types of music programs. Among the problems to be discussed are the following: plans for developing a music program, cost of operation, selection of teachers, sources of materials and equipment, and scheduling of special groups (orchestras, glee clubs and choruses, instrumental classes, and bands).

COURSES IN MUSIC EDUCATION

5313, 5317 (313, 317) Problems in Music Education. (3-0) Credit, 3 hours each. This course offers the student the opportunity to pursue the study of one or more problems in music that hold especial interest for him or offer opportunity for professional improvement and growth. The first half of this course may be elected for credit independently of the second half.

The Music Department's Stage Band puts on a concert.
IV. DIVISION OF FOREIGN LANGUAGE

Sound knowledge of the languages, the literatures, the basic philosophical attitudes and the culture patterns of the people concerned are the principal objectives of the Division of Foreign Languages.

French 1410, 1420, German 1410, 1420, and Spanish 1410, 1420 involves three hours of class work and two hours of laboratory a week and carry eight semester hours of credit each. In the foreign language laboratory each student will have access to tapes recorded by native speakers. These tapes are closely correlated with the classroom text and are designed to help each student develop an accurate pronunciation as well as acquire a high degree of fluency.

The first half of each of these courses, i.e., French 1410, German 1410, and Spanish 1410, is planned for students who have no previous instruction in the particular foreign language indicated by the course name. Students who present as many as two (2) high-school units in a foreign language as college entrance credit will normally take the course numbered 1420 as their first course in college, if the language they choose to study is the same as the one in which their high-school credit was given. Credit earned in the course numbered 1410 becomes valid only upon completion of the course numbered 1420 also. The student should understand, however, that credit already earned in one foreign language does not bar him from college credit for a course numbered 1410 in another foreign language.

In any case the departmental staff concerned may depart from the above stated placement procedure and place a student in the course in which his interests may be served.

For a Bachelor of Arts degree a major requires eight courses, and a minor requires six courses when no teaching certificate is desired.

BACHELOR OF SCIENCE IN EDUCATION DEGREE
(128 hours; Includes certificate)

Notes:

1. Twenty-four to 26 hours (eight course), are required for the major (or first or second teaching field) in French, German, or Spanish.

2. Fourteen hours minimum are required in two of the following: foreign language, mathematics, science.

3. Recommended second teaching field: French, German, Spanish, English, social science, speech or one from the Division of Sciences.
### FOREIGN LANGUAGE

#### Freshman Year

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<td>English 1310, 1320</td>
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<td>History 1310, 1320</td>
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<td>Mathematics or Science</td>
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**Total Hours:** 30-36

#### Sophomore Year

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**Total Hours:** 32

#### Junior Year

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**Total Hours:** 27-30

#### Senior Year

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**Total Hours:** 30

### BACHELOR OF ARTS DEGREE

(128 hours)

**Notes:**

1. Twenty-four to 26 hours (eight courses), are required for the major in French, German or Spanish.

2. Suggested minors: French, German, Spanish, English, social science, speech or one from the Division of Sciences.

3. A teaching certificate is available with this degree but may require extra hours.
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Part of foreign language instruction is by means of television.
Assistant Professor Laws
Instructor Swanson

1410, 1420 (13, 15) Beginners' Course in French. (3-2) Credit, 4 hours each. An intensive drill course for students who have had no previous instruction in French. Emphasis will be placed on accuracy of pronunciation, knowledge of the essentials of grammar, and the acquisition of conversational and reading skills.

2310, 2320 (71, 72) Conversation and Readings in French Literature. (3-0) Credit, 3 hours each. This course is designed to insure accuracy of pronunciation, ability to read French with ease, an improvement of oral skills, and a more complete knowledge of grammar. The student is introduced to readings from French literature and civilization.

Prerequisite: French 1410, 1420 or equivalent, or three accredited high school units in French and consent of the instructor.

3301, 3302 (113, 114) Survey of French Literature. (3-0) Credit, 3 hours each. The first semester will deal with French literature from its beginning through the 17th century. The second semester will continue from the 18th century to the present.

4301, 4302 (231, 232) Studies in French Literary Genres. (3-0) Credit, 3 hours each. This course is designed to acquaint the student with the development of drama, poetry, and prose in French literature.

*4390 (261) Studies in Periods in French Literature, a conference course. (3-0) Credit, 3 hours. This course is designed so that the student may pursue a program of research in periods, genres, authors, or literary criticism in line with his own initiative and interest. The work is so arranged that the student will do intensive reading and individual research.

*May be repeated once for additional credit.
1410, 1420 (13, 15) Beginners' Course in German. (3-2) Credit, 4 hours each. Drills in learning native patterns; learning to vary these patterns; using them freely in new concepts form the basis for these two courses. By mastering the German materials in class work and home study, students will learn structure and syntax as well as vocabulary.

2310, 2320 (71, 72) Studies in Modern German Literature. (3-0) Credit, 3 hours each. Intensive study of a number of carefully, selected modern German dramas, lyric poems, and short stories. Parallel readings and reports.

This course is designed as an introduction to the study of German literature from the literary and cultural side. It will, however, continue progressively the disciplines in syntax and composition, both oral and written, begun in the course prerequisite to it.

Prerequisite: German 1410, 1420 or equivalent, or three accredited high school units in German and consent of the instructor.

3301, 3302 (113, 114) Survey of German Literature. (3-0) Credit, 3 hours each. The first semester will deal with German literature from its beginning through 1750. The second semester will deal with German literature from 1750 to the present. German 3302 will not be available to students who have taken German 3301 previous to the fall semester, 1962.

3303 (123) Modern German Lyric and Drama. (3-0) Credit, 3 hours. A survey of the development of German verse from Goethe to the present time. Intensive study of selected dramas by Kleist Hebbel, Hauptmann and other representative modern German dramatists.

4301 (217) Lessing, Goethe, Schiller. (3-0) Credit, 3 hours. Lectures on the life and works of Lessing, Goethe and Schiller. Intensive study of representatives works of those authors. Collateral readings; oral and written reports.

4302 (227) Modern German Novel and Short Story. (3-0) Credit, 3 hours. Intensive study of the novel and of the short story, as represented by Storm, Keller, Meyer and others. For collateral assignments, works of fiction are chosen that serve as exponents of new literary movements, that reflect interesting phases of life and thought or that embody tendencies characteristic of certain periods.

*4390 (261) Studies and Periods in German Literature. (3-0) Credit, 3 hours. In this course emphasis will be placed on authors, works or periods of German literature (e.g. Storm and Stress, Classicism, Realism, Romanticism). The work of this course will be designed so that the student will do intensive reading and individual research.

*May be repeated once for additional credit.
SPANISH

Associate Professor Meredith
Assistant Professor Phillips
Instructors DeCarlo, Swanson

1410, 1420 (13, 15) Beginners' Course in Spanish. (3-2) Credit, 4 hours each. The work includes the fundamentals of grammar, a reasonable amount of reading, and a great deal of practice in oral and written composition. Three hours of class work and two hours of laboratory a week.

2310, 2320 (71,72) Conversational Spanish. (3-0) Credit, 3 hours each. It is the primary purpose of this course to give the student an opportunity to develop an accurate oral use of the language, based on a sound understanding of structure. Reading will be incidental to the oral objective.

Prerequisite: Spanish 1410, 1420 or equivalent, or three accredited high school units in Spanish and consent of the instructor.

3301, 3302 (114, 115) Survey of Spanish Literature. (3-0) Credit, 3 hours each. The first semester will deal with Spanish literature from its beginning through the 18th century. The second semester will deal with Spanish literature from the 19th century to the present. Emphasis will be placed on the works and authors that are the more adequate expressions of the thought and culture patterns of their times and that have projected their influence into subsequent periods.

3303 (116) Survey of Spanish-American Literature. (3-0) Credit, 3 hours. This course is a study of Spanish-American literature from the Colonial period through the Independence movement to the present.

3304 (141) Advanced Grammar and Composition. (3-0) Credit, 3 hours. The work of the course is intended to perfect the students' knowledge of grammar and phonetics and to give the greatest possible facility in the use of Spanish as a medium for original expression. It will involve extensive work in oral and written composition based largely on material of value as a background for teachers of Spanish.

*4301, *4302 (237, 238) Modern Spanish Novel. (3-0) Credit, 3 hours each. The work of the first semester will include a study of the novel from the beginning of the costumbrista movement in the nineteenth century to the Generation of 1898. The work of the second semester will continue the study of the novel to the present time.

The work of either semester may be elected as an independent course for three semester hours credit.

*4303 (223) Modern Drama of Spain. (3-0) Credit, 3 hours. The course covers material from the beginning of the Romantic movement to the

*May be taken as a graduate course with approval of the Dean of Graduate Studies.
present. Some of the more important representative works of Spanish-American dramatists will be included for purposes of comparative study. Conducted in Spanish.

4304 Golden Age Drama. (3-0) Credit, 3 hours. This course is a study of the dramas of Calderón de la Barca, Lope de Vega, and Tirso de Molina and other dramatics of the sixteenth and seventeenth centuries.

*4330 (227) The Spanish-American Novel. (3-0) Credit, 3 hours. Emphasis will be placed on novels that present reliable interpretations of Spanish-American life and that have the highest level of aesthetic value. Both aesthetic and sociological factors will be stressed.

*4360 (217) Modern Spanish Poetry and the Modernista Poets of Spanish-America. (3-0) Credit, 3 hours. A study of the poetry of Spain from the beginning of the nineteenth century to the present, and of Spanish-America from the precursors to the modernista movements to the present. Conducted in Spanish.

**4390 (261) Studies and Problems in Spanish and Spanish-American Literature of the Nineteenth and Twentieth Centuries. (3-0) Credit, 3 hours. The work of this course is designed primarily to encourage graduate students who would make a minor of Spanish in the pursuit of studies in keeping with individual interests and initiative.

*4391 (240) Concentration Courses on Oral and Aural Drill. (3-3) Credit, 3 hours. This course involves an intensive use of laboratory work and oral drill with the aim of giving the student, by means of such concentration, the time and opportunity to develop a greater mastery of the language, both orally and aurally. Each registrant of this course will be expected to follow a program of intensive drill in the oral of Spanish, designed for his individual needs.

Prerequisite: Consent of the head of the division of foreign languages and the instructor. This course will usually be offered during the summer session.

*May be taken as a graduate course with approval of the Dean of Graduate Studies.

**May be repeated once for additional credit.
The division of health and physical education offers each college student an opportunity to participate in wholesome vigorous activity for the development of social relationships and to help produce more abundant health. It also offers an opportunity to acquire skills and knowledge which will offer a rich and satisfying pursuit of leisure time.

The major purpose of the division is to prepare teachers of health and physical education and coaches of athletics for the public schools; however, there are many other opportunities for those interested in this field. Increased professional opportunities are found in the related areas of youth work (i.e. scout), group work, community and industrial recreation, public health, camp counseling, and careers in the area of outdoor education as well as physical therapy and recreational therapy.

A course in physical education activities is required of all students enrolled in the college for the first four semesters of residence work. The following student may, however, at their discretion, substitute credit earned in other courses for that which they would be expected normally to attain in physical education activities: (a) students 23 years of age or over at the time of their initial matriculation in the college, (b) married women with children, and (c) veterans. Persons who have served six months or less in the Armed Service will not be considered as exempt from the requirement. These exemptions do no not apply to students who are taking a major or minor in health and physical education. Sophomore students may defer activities for the summer terms, provided all work is completed to date.

All women students other than those taking a major or minor are expected to absolve Physical Education 1101 sometime during the freshman year, and men students are expected normally to enroll for course 1121. During the freshman and sophomore years a woman student must take a course in rhythmics, in any individual sport, and in a team sport. The selection of the course to be taken must be made with the consent of the department. A student may enroll in a course in physical education activities during each semester that he is in residence and thus may offer toward graduation a maximum of six hours of credit earned in such courses, provided that, unless he is making a major or minor of physical education, he may not receive credit for two such courses in the same semester.
If a disability is revealed from the health examination, the physical education of the student in question will be adjusted accordingly. If a student has knowledge of a disability that should restrict his participation, he should see the college physician prior to enrollment and his case will be adjusted upon receipt of the recommendation of the college physician.

CURRICULUM FOR MEN. Men wishing to major in health and physical education may do so by enrolling under either the curriculum for high school teachers leading to the degree of Bachelor of Science in Education or under the curriculum leading to the degree of Bachelor of Arts with the inclusion of the courses required to qualify for a provisional high school certificate.

Men enrolled under the curriculum for high school teachers wishing to offer toward graduation a minor in health and physical education will be expected to absolve the following courses:

Physical Education 1341 or 1342, 2354, 3311, 3313, 3317, 4351; physical education activities, six semester hours.

Activity courses carry one semester hour of credit each; all other courses carry credits of three semester hours each unless otherwise indicated under the respective course descriptions.

BACHELOR OF SCIENCE IN EDUCATION DEGREE

(128 hours; includes certificate)

Notes:

1. Thirty-two hours minimum are required in physical education for men.

2. A minor (second field) must be completed.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 1341 or 1342</td>
<td>3</td>
<td>Physical Education 2354, 2356</td>
<td>6</td>
</tr>
<tr>
<td>Physical Education, activities</td>
<td>2</td>
<td>Physical Education, activities</td>
<td>2</td>
</tr>
<tr>
<td>Second field</td>
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</tr>
<tr>
<td>English 1310, 1320</td>
<td>6</td>
<td>English (literature)</td>
<td>6</td>
</tr>
<tr>
<td>History 1310, 1320</td>
<td>6</td>
<td>Government 2310, 2320</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry 1340, 1350</td>
<td>6</td>
<td>Biology 2310, 2320</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1310 or Foreign Language</td>
<td>3-8</td>
<td>Speech 1310</td>
<td>3</td>
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32-37
HEALTH AND PHYSICAL EDUCATION

Junior Year Hours Senior Year Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Course</th>
<th>Hours</th>
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<td>Physical Education 4392, 4301 or 4391</td>
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<tr>
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<td>Second field</td>
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<td>Second field</td>
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</tr>
<tr>
<td>Education</td>
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<td>Education, including 4681</td>
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</tr>
<tr>
<td>Humanities 3201 (or Bible), 3213</td>
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<td>Electives</td>
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<tr>
<td>Electives</td>
<td>3-5</td>
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</tr>
</tbody>
</table>

30-32

CURRICULUM FOR WOMEN. Women wishing to major in health and physical education may do so by enrolling under either the curriculum for high school teachers leading to the degree of Bachelor of Science in Education or under the curriculum leading to the degree of Bachelor of Arts with the inclusion of the courses required to qualify for a provisional high school certificate.

Students wishing to complete a teaching field in health education will register for Health Education 3338, 3240, 3248, 3375; Home Economics 3339; Industrial Arts 4383, and 4380.

Women wishing to prepare for a coaching career may elect to take advanced skill courses and the coaching courses in addition to the prescribed major or minor course outline.

BACHELOR OF SCIENCE IN EDUCATION DEGREE
(128 hours; includes certificate)

Notes:
1. Thirty-two hours minimum are required in physical education for women.
2. A minor (second field) must be completed.

Plan I

Freshman Year Hours Sophomore Year Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Course</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
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<td>Physical Education 3320</td>
<td>3</td>
</tr>
<tr>
<td>Health Education 1124</td>
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<td>2</td>
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<td>Physical Education, activities</td>
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<td>Physical Education, activity</td>
<td>1</td>
</tr>
<tr>
<td>Second field</td>
<td>6</td>
<td>Second field</td>
<td>6</td>
</tr>
<tr>
<td>English 1310, 1320</td>
<td>6</td>
<td>English (literature)</td>
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</tr>
<tr>
<td>History 1310, 1320</td>
<td>6</td>
<td>Chemistry 1340, 1350</td>
<td>6</td>
</tr>
<tr>
<td>Biology 2310, 2320</td>
<td>6</td>
<td>Government 3210, 2320</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics or</td>
<td></td>
<td>Speech 1310</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3-8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

32 33
Junior Year  | Hours | Senior Year  | Hours
---|---|---|---
Physical Education, advanced | 9 | Physical Education, advanced | 12
Physical Education, activity | 1 | Second field | 6
Second field | 6 | Education, including 4681 | 12
Education | 6 | Electives | 3
Humanities 3201 | 4 |  | 
(or Bible), 3213 | 4 |  | 33
Electives | 4 |  | 
| | | 30 |

**BACHELOR OF SCIENCE IN EDUCATION DEGREE**

(128 hours; includes certificate)

Notes:

1. Certification is in health and physical education only with 36 hours required.

2. Twelve hours in supporting courses are required to be selected from Biology 2430, 1410, 3490, 3340 and 3350; Industrial Arts 4383 and 4380; Home Economics 3339.

**PLAN II**

Freshman Year  | Hours | Sophomore Year  | Hours
---|---|---|---
Physical Education 1315 | 2 | Physical Education 3320 | 3
Physical Education, activities | 2 | Physical Education, activity | 1
Health Education 1124 | 1 | Physical Education 2201 | 2
English 1310, 1320, | 6 | Health Education 3338 | 3
History 1310, 1320 | 6 | English (literature) | 6
Biology 2310, 2320 | 6 | Government 2310, 2320 | 6
Speech 1310 | 3 | Chemistry 1340, 1350 | 6
Mathematics or  | 3-8 | Supporting courses | 6
Foreign Language |  |  | 33
| 29-34 |
Junior Year | Hours | Senior Year | Hours |
--- | --- | --- | --- |
Physical Education, advanced | 9 | Physical Education, advanced | 8 |
Physical Education, activity | 1 | Health Education 3248 | 2 |
Health Education 3240 | 2 | Education, including 4681 | 12 |
Education | 6 | Supporting courses | 3 |
Humanities 3201 | 4 | Electives | 5 |
(or Bible), 3213 | 6 | | |
Electives | 6 | | 30 |
--- | --- | --- | --- |
31 | | | |

PHYSICAL EDUCATION ACTIVITY COURSES

1101 (1) Freshman Course in Physical Education for Women. (0-3) Credit, 1 hour. The course presents ten weeks of health orientation for college-living. The remainder of the course is devoted to study and participation in body mechanics and conditioning exercises. This course is to be taken during the freshman year.

1102 (2) Individual and Dual Activities. (0-3) Credit, 1 hour. Courses will consist of individual and dual activities designed to aid the student in developing skills and physical health. A student may repeat in this area only with the permission of the department.

1104 (4) Team Activities. (0-3) Credit, 1 hour. Courses will consist of team activities designed to aid the student in developing skills and physical health. A student may repeat in this area with the permission of the department.

1106 (6) Aquatic Activities. (0-3) Credit, 1 hour. The standard American Red Cross water safety and small craft program will be used. Satisfactory completion of any part of the program will entitle a student to the appropriate certificate. A student may repeat a course only if working on a different certificate.

1108 (8) Rhythmical Activities. (0-3) Credit, 1 hour. The course presents the techniques and theory of fundamental body movements as used in the various forms of dance. It is designed to enrich movement vocabulary, space usage and floor patterns, thus opening new approaches to creative composition in dance through exploratory experiences. It also seeks to help the individual understand the broad cultural background of dance as an art form. A student may take more than one course in this area by permission of the department.

1109 (29) Adapted Activities for Women. (0-3) Credit, 1 hour. This course is open to students upon the recommendation of the department.
and the college physician. The purpose of the course is to provide a program designed to meet the individual needs of a physically handicapped student.

1121 (21) Required Activities for Men. (0-3) Credit, 1 hour. Swimming, tennis, handball, volleyball, basketball, softball, boxing, tumbling and touch football are taught throughout the year. Certain standards of achievement are required of all men in their first activities before being entitled to release from the requirements in physical education. Activities are run concurrently so that a student may learn an activity needed for completion of requirements, or if completed, he may choose another activity in which he may be more interested. (This course may be repeated).

1122 (22) Elective Activities for Men. (0-3) Credit, 1 hour. Football, basketball, tennis, track, swimming, baseball and other sports are scheduled independently by name. At the close of the season of an intercollegiate sport, men must finish the semester in a class of required activities in order to receive credit. This time should be used to work off any needed requirements that have been noted in course 1121. (This course may be repeated).

1123 (21R) Restricted Activities for Men. (0-3) Credit, 1 hour. This course is designed for those men who have physical disabilities which prevent them from taking the regular course. After conferences with the health service, activities are prescribed which are within the range of the ability of the individual.

PHYSICAL EDUCATION COURSES

1315 (45) Camp Leadership. (2-3) Credit, 3 hours. This course is planned to meet the needs of those who are preparing for positions in summer camps. The work includes an extensive study of literature on camping, group discussion of camp problems, and actual participation in the various activities of camps. Each student will devote a portion of his time to a specific camping problem, and those with similar problems will be encouraged to work together in small informal groups.

1341, 1342 (41, 42) Physical Education Activities. (3-3) Credit, 3 hours each. The object of the courses is to introduce the basic skills of the most important activities of the school program. Course 1341 deals with volleyball, handball, softball, touch football, soccer and tumbling; 1342 with boxing, wrestling, swimming, lead-up games and calisthenics.

2201 Intramurals. (2-1) Credit, 2 hours. The course includes a study of the principles, content, organization and administration of the school intramural program.
2354 (54) Accident Prevention and First Aid. (3-0) Credit, 3 hours. A lecture and laboratory course designed to cover Home Accidents and Prevention and to fulfill requirements for an instructor's rating in first aid by the American Red Cross.

2356 (56) Prevention and Care of Athletic Injuries. (3-3) Credit, 3 hours. A course in the practical and theoretical study of massage, taping, bandaging, care of sprains, bruises, strains and wounds. A course designed to acquaint the student with the problems of the athletic training room and to provide him with the practical instruction to aid in the solution of these same problems.

3230 (136) Materials for Rhythmical Activities. (2-2) Credit, 2 hours. This course is concerned with the history and philosophy of dance in its various forms. The investigation of available writing and recorded materials serves as a basis for further exploration in this field.

3227 (163) Theory and Technique of Coaching Girls' Basketball and Volleyball. (1-3) Credit, 2 hours. Intensive study and practice is made of the analysis of skills, methods and techniques of coaching, presentation of team management, training program, methods of evaluation, techniques of scouting, ethics of coaching, organizing and conducting tournaments, and care and selection of equipment.
Prerequisite: Permission of the department.

3311 (111) Administration of Health Education. (3-0) Credit, 3 hours. In this course, the complexities of administering and integrating a complete health education program are revealed and ways are studied through which the several phases may be co-ordinated. Some specific items are health examinations, daily observations, health handicaps, health rules and fallacies, weight and growth, and sanitary surveys. Several courses of study will be examined and evaluated.

3313 (113) Organization and Administration of Physical Education. (3-0) Credit, 3 hours. The scientific selection of activities for a public school program; the placement, time allotment, and the rotation of students on courts and fields; general and routine administration of the school program; facilities with which to conduct the program; general procedures and policies.

3317 (117) The Physiology of Exercise. (3-0) Credit, 3 hours. The application of physiological principles to health and physical education which will make a difference in the program if applied along with an analysis of the manner in which the body reacts to the exacting requirements of exercise.

3320 (137) Kinesiology. (3-0) Credit, 3 hours. This is a scientific course designed to provide a technical knowledge of human anatomy and motor movements, body mechanics and recognition of the deviation from normal body alignments in individuals.
180  HEALTH AND PHYSICAL EDUCATION

*3322 (139) Theory, Techniques, and Application of Sports Activities. (2-2) Credit, 2 hours. Study and presentation is made of the techniques and theories underlying sports activities, and their application to practical situations. Special emphasis is placed upon aids, equipment, organization, control and management, and classification of participants. Instruction and practice will be given in officiating.

Prerequisite: Permission of the department.

3323 (149) Principles of Health and Physical Education. (3-0) Credit, 3 hours. The course is designed to investigate social, political, economic, historical, psychological, and biological backgrounds as sources for forming basic principles in relation to the area of health and physical well-being. Specific units of work includes a study of the nature of man, psychology of acquiring motor skills, and cultural changes and influences.

3324 (155) Physical Education Activities for Children Five to Twelve Years of Age. (3-3) Credit, 3 hours. The course includes a study of the principles, content, and program planning for children five through 12 years of age. A laboratory period provides opportunity for the student to acquire skill in applying these principles.

3334 (183) Recreational Leadership. (2-2) Credit, 3 hours. This is essentially a course to prepare leaders for recreational enterprises both in the school and in the community. A study is made of the theories of play, the present-day trend in recreation, and the contribution of physical education to community recreation. Emphasis is placed on the coordination of recreational facilities, the content of programs for various groups in relation to age and interest, and the administration and evaluation of community recreation. When practicable, Sewell Park and the City Recreation Park are used as laboratories for this course.

4236 or 4336 (207) Seminar in Special Problems in Health, Physical Education and Recreation. Credit, 2 or 3 hours. This course is designed for the undergraduate student who displays promise and aptitude in physical education research. The student who wishes to undertake a research problem learns the procedures, collects data pertinent to, and analyses the results of the research. Laboratory available.

4301 (101) Athletic Coaching. (3-3) Credit, 3 hours. This is a course in the coaching of football, basketball, tennis, and golf for students who would like to assist in these sports but who prefer to emphasize phases of physical education other than coaching. Methods of coaching are studied through lectures, demonstrations, practice, and reading of present day literature on the sports.

4303 (203) The Administration of Athletics. (3-0) Credit, 3 hours. A

* May be repeated once for additional credit.
study of the various factors involved in the administration of an efficient educational athletic program. Special emphasis will be placed on the avoidance of pitfalls, embarrassing situations, and misunderstandings in order that an integrated program will result.

4325 (214) The Organization and Administration of the Health and Physical Well-Being of Girls and Women. (3-0) Credit, 3 hours. The course covers practical problems in administering the program of health and physical well-being. Among the more important problems are supervision of facilities, selection and care of equipment, and the selection and supervision of staff.

4329 (209) Outdoor Education. (2-2) Credit, 3 hours. The course will include the study of how to utilize the out-of-doors as a classroom. Emphasis will be placed on the utilization of biological and natural sciences and camping skills. The organization of school outdoor education programs will be studied. When possible, the class will be conducted in a camping situation. Field trips will be taken when possible.

4351 (251) Tests and Measurements in Health and Physical Education. (3-0) Credit, 3 hours. A study will be made of tests in health, physical fitness and skills. Practice will be given in statistical procedures useful to the physical educator and in the understanding of test results.

4354 (254) Practices in Health Education Applied to Physical Education. (3-0) Credit, 3 hours. Practical work that should be done by the physical educator in health appraisal of vision, hearing, and other organisms. How to make a physical fitness analysis, ways to follow up, and individual development.

4391 (191) Football Coaching. (3-3) Credit, 3 hours. Open to men who have been on a collegiate football, basketball, baseball, or track squad for at least one full season prior to entering the course. Students must also take part in the regular football practice while enrolled in the course. In the classroom, a thorough study will be made of the phases of the game that pertain to coaching a team.

4392 (192) Basketball and Track Coaching. (3-3) Credit, 3 hours. Open to men who have been on a collegiate football, basketball, baseball, or track squad for at least one full season prior to entering the course. Regular practice will be required of all members of the class while enrolled in the course. In the classroom, a thorough study will be made of all phases of the sports that pertain to coaching basketball and track.

5304 (304) Psychology for Motor Learning. (3-0) Credit, 3 hours. Intensive study is made in the nature of the scientific research, theories, of behavior development, learning and the acquisitions of motor skills, empirical principles of learning in relation to motor learning, and struc-
tural, physiological and other factors in relation to motor skill performance.

5305 (305) Advanced Course in Tests and Measurements in Health and Physical Education. (3-0) Credit, 3 hours. Intensive study is made of existing tests in health and physical education and the methods of tests construction. Laboratory experiences are provided.

*5321 (321) Workshop for Teachers in Physical Education. (3-0) Credit, 3 hours. This workshop will deal with problems in physical education such as intramurals, curriculum, public relations, and athletics.

5345 (345) Supervision of Health and Physical Education. (3-0) Credit, 3 hours. This course deals with the basic principles of supervision as they apply to the field of health and physical education. This includes the planning of programs and the techniques of supervision such as interviewing, conferences, evaluation procedures, and visitations. Where possible, the students are given opportunities to practice these techniques.

5346 (346) Literature and Research in Health and Physical Education. (3-0) Credit, 3 hours. This course contains directed reading and reports and discussions of the literature in the fields of health and physical education, a critical analysis of research techniques and the locations and securing of information, together with the steps necessary to the solution of research problems in this field.

5347 (347) Problems in Health and Physical Education. (Hours and credit are arranged.) This course follows Physical Education 5346 and may be taken by a student who desires to work on a research problem. He gathers pertinent data and submits a report on the results of his research.

5348 (348) Organization of the Physical Education Program for the Elementary School. (3-0) Credit, 3 hours. This course is designed to help students overcome the problems existing at the elementary level through program planning and organization in terms of the needs of the child. Discussions will focus on problems of instruction, evaluation, philosophy and the objectives to be attained. The larger role of the teacher in sharing responsibility with all other teachers and administrators will be emphasized in all aspects of school life, inclusive of the health program, the unique contribution of the physical education teachers in the educational process, the concept of the teacher as a community member, and suggestions for the improvement of the quality of professional education.

5353 (353) Curriculum Development in Health and Physical Education. (3-0) Credit, 3 hours. The planning and operation of the total health and

* May be repeated once for additional credit.
physical education program with special attention given to overcoming difficulties peculiar to this field. Assistance will be given in preparing curriculum materials for specific purposes and situations.

5390 (390) Seminar in Athletic Coaching. (3-0) Credit, 3 hours. A course designed to explore the logical basis underlying present techniques of coaching at all levels of the secondary schools, devoted more to the “why” of coaching than to the “how.”

HEALTH EDUCATION COURSES

1124 (24) First Aid. (1-2) Credit, 1 hour. A lecture and laboratory course in First Aid Procedure. Opportunity is given for completion of the requirements of the American Red Cross Standard and Advanced Certificates.

2340 (140) Community Hygiene. (2-0) Credit, 2 hours. A survey of the science of sanitation and its application to food, milk, and water supply. Study of environmental conditions in the community, home, school and the control of communicative diseases.

3248 (148) Health Principles and Practices. (2-0) Credit, 2 hours. The place of health and fitness in present society. Immunization, medical examination, mental health, alcoholism, narcotic addiction, leading diseases, and general interpretation and summary of the abundance of material covering the adolescent and adult health needs.

3338 (138) Personal Hygiene. (3-0) Credit, 3 hours. A fundamental course in principles and problems of healthful living as they apply today.

3375 (175) Health Education for the Elementary Teacher. (3-0) Credit, 3 hours. This course is designed to meet the state certification requirements. Its purpose is to point up the role of the elementary teacher in the total school health program with special emphasis placed upon the areas of instruction and health services. Instructional units will be developed, methods and materials will be explored, and problems connected with the teacher's association with the school health program will be discussed.

5311 (311) Organization and Administration of a School Health Program. (3-0) Credit, 3 hours. This course is designed to aid a teacher in the organization and development of a functional and comprehensive health program in his own school, including both the elementary and secondary levels. Emphasis will be placed upon the co-ordination of all aspects of the program, the evaluation of the health needs of the pupils and the community, and the use of the community resources in the school health program.

5699 (399) Thesis. Credit, 6 hours.
The Department of Business Administration offers courses designed to meet the needs of two classes of students: (1) Those who plan to teach business subjects and (2) those who expect to enter some field of business or government service after graduation from college.

Courses are offered in (1) accounting, (2) office practice and secretarial science, and (3) general business administration.

BACHELOR OF BUSINESS ADMINISTRATION DEGREE

(128 semester hours)

Notes:

1. Major is 42 semester hours; a minor is not required.

2. Students who do not have credit for two semesters of typewriting in high school will be required to offer credit in Business Administration 1323 as part of their graduation requirements. Such students should enroll for Business Administration 1323 in the freshman year and defer Speech 1310 until the sophomore year.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Business Administration</td>
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<td>English (literature)</td>
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<td>Speech 1310</td>
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<td>Economics 2310, 2320</td>
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### BUSINESS ADMINISTRATION

<table>
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<th>Senior Year</th>
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<td>(at least 3 hours advanced)</td>
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<td>Electives, including Academic</td>
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<td>Humanities 3201</td>
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<td>(or Bible), 3213</td>
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<td>Electives</td>
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<td><strong>Total</strong></td>
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</table>

### BACHELOR OF SCIENCE IN EDUCATION DEGREE

(128 hours; includes certificate)

**Notes:**

1. Twenty-nine hours are required for the major (first teaching field.)
2. A second field (minor) must be completed.
3. Fourteen hours minimum are required in two of the following: science, mathematics, foreign language.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
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<td>History 1310, 1320</td>
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<td>Foreign Language</td>
<td>3-8</td>
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<th>Senior Year</th>
<th>Hours</th>
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<tbody>
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<td></td>
<td><strong>Total</strong></td>
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</tr>
</tbody>
</table>
Students who present one or more units in shorthand or stenography in partial fulfillment of admission requirements may not enroll for Business Administration 1323 or 1331 for credit. Similarly, students who present a full unit in typewriting in partial fulfillment of admission requirements may not enroll for Business Administration 1323 for credit.

1321 (21) **Introduction to Business.** (3-0) Credit, 3 hours. A basic course in the fundamentals of business. The course is intended to give an overview of business and to develop an intelligent understanding of the realistic problems and practices of business. It includes a study of business organization and operation, business functions, and various areas of business.

1323 (23) **Typewriting I.** (3-2) Credit, 3 hours. An intensive course aimed at a mastery of the techniques of touch typewriting. Emphasis in the course is placed upon speed and accuracy development as well as upon applied typewriting. Students who present a unit of typewriting in partial fulfillment of entrance requirements may not enroll for this course for credit.

1325 (25) **Advanced Typewriting Problems.** (3-2) Credit, 3 hours. Applied office typewriting with emphasis on problem typing; typing of various business forms and reports; stencil preparation; manuscript typing; typing of legal documents; concomitant instruction in office skills, in Business English, and in the meaning and use of various business and legal forms and documents.

1331, 1332 (31, 32) **Shorthand.** (3-2) Credit, 3 hours each. A detailed study of Gregg shorthand with special attention given to the structure of outlines, shorthand penmanship, and the reading of shorthand notes. In course 1332, emphasis is placed upon dictation and transcription. The class meets five hours a week, two hours of which are devoted especially to remedial instruction.

Students who do not present a full high school credit in typewriting or its equivalent must register for Business Administration 1323 as a parallel course.

1343 (43) **Dictation.** (3-2) Credit, 3 hours. In this course the student who has fairly mastered Gregg shorthand theory has an opportunity to increase his speed in taking dictation. A review of the principles necessary for speed building is given as preparation for the rapid dictation which follows.

Ordinarily this course will be offered in the fall semester only. Pre-requisite, 1332 or equivalent. It is open to high school graduates who hold a credit in stenography.

2357 (57) **Secretarial Training.** (3-0) Credit, 3 hours. This course is designed to prepare the student for actual service as a commercial stenographer or a secretary. A thorough study of filing and indexing is included, and a series of practical problems is assigned.

This course presupposes an adequate knowledge of shorthand and typewriting.
2365 (65) Office Management and Practice. (3-0) Credit, 3 hours. Office organization and administration; office layout and location; physical factors and environment; office services, procedures, and methods; office forms; office furniture and equipment; office machines and appliances; office personnel and supervision.

2461, 2462 (61, 62) Elementary Accounting. (3-2) Credit, 4 hours each. The work of this course is planned to acquaint the student with the fundamental principles of constructive accounting. The course will include such topics as the balance sheet, the profit and loss statement, adjusting and closing entries, books of original entry, and the work sheet. Attention is given to the accounting problems of the three chief forms of organization of the present day—the single proprietorship, the partnership, and the corporation.

3301 Real Estate. (3-0) Credit, 3 hours. Fundamental principles of real estate; legal processes and instruments; valuations; planning, development, and sales; property management; real estate financing; private and public interests; other basic factors in real estate practice.

3303 Principles of Management. (3-0) Credit, 3 hours. Principles and methods in managing business and industrial enterprises; introduction to fundamental management principles; study of methods, procedures, and problems as a means of applying managerial principles.

3305 Retailing. (3-0) Credit, 3 hours. Principles of retailing; basic practices and procedures; location and layout; purchasing, pricing, promotion, and credit management; other basic considerations in retail operations.

3311 (111) Money and Banking. (3-0) Credit, 3 hours. See Economics 3311.

3312 (112) Corporation Finance. (3-0) Credit, 3 hours. See Economics 3312.

3415 (115) Intermediate Accounting. (3-2) Credit, 4 hours. A study of fundamental accounting procedures; accounting for items entering into the preparation of the basic accounting statements; valuation of and accounting for balance sheet items, including working capital, non-current assets, and corporate capital.

3316 (116) Advanced Accounting. (3-0) Credit, 3 hours. Analytical processes; correction of errors; statement analysis; funds statement; some attention to receivership accounting and consolidated statements.

3333 (133) Business Statistics. (3-0) Credit, 3 hours. A study of the collection, organization, and analysis of data relative to units of measurement; classification and presentation; averages, index numbers, and other similar data. Emphasis is placed upon the application of statistics to business problems.
3343 (143) Marketing. (3-0) Credit, 3 hours. This course is planned to give the student a thorough understanding of the principles of marketing, and presents the problems of marketing agricultural products, raw materials, and manufactured goods. Special attention is given to retailing methods in department stores, chain stores, and mail order houses. As far as practicable, problems of marketing which concern the citizens of Texas will be included.

3353 (153) Business Communication. (3-0) Credit, 3 hours. A course designed to teach effective business writing and to give practice in composing all types of business letters, including the letter of application as a practical help.

3357 (157) Salesmanship. (3-0) Credit, 3 hours. Fundamentals of personal salesmanship; procedures in the selling of goods and services; psychological factors in selling; the salesman in relation to his company, to the product or service sold, and to the prospective buyer; sales management.

3361, 3362 (161, 162) Business Law. (3-0) Credit, 3 hours each. The purpose of the course is to give the student an understanding of the laws governing the more familiar business transactions and relationships. Special attention is given general contracts. Included, also, are the subjects of agency, negotiable instruments, bailments, and sales. The C. P. A. requirements in the field of business law are taken into consideration.

4313 (213) Auditing. (3-0) Credit, 3 hours. Auditing principles and procedures; auditing standards and ethics; working papers and reports.

4315 (215) Insurance. (3-0) Credit, 3 hours. Principles of general insurance. A study is made of many policy offerings in life, property, liability, and casualty lines.

*4327 (227) Income Tax Accounting. (3-0) Credit, 3 hours. Principles and problems involved in accounting for income taxes and reporting therefor; procedures in income determination; problems in tax finding; taxes in relation to managerial accounting.

*4335 (235) Problems of Business Management. (3-0) Credit, 3 hours. A study of the basic problems involved in the successful management of a business enterprise. The course will include such problems as securing the necessary capital, location of the site, buying, handling of inventories, selling, employment, public relations, etc.

4365 (265) Cost Accounting. (3-0) Credit, 3 hours. Accounting for materials, labor, and burden; job order cost accounting; process cost accounting; distribution costs; budgetary procedure; standard costs.

4373 (273) Personnel Relations. (3-0) Credit, 3 hours. Personnel relations in business, government, and industry; the personnel department; employee relationships; selection, training, promotion, payment, and supervision of personnel; various personnel activities.

*May be taken as graduate course with approval of the Dean of Graduate Studies.
5301 (301) Advanced Seminar in Marketing. (3-0) Credit, 3 or 6 hours. Advanced study of marketing functions and institutions; marketing structures, marketing strategies, policies, and problems.

5303 (303) Advanced Seminar in Management. (3-0) Credit, 3 or 6 hours. A study of various areas and phases of management; managerial organization; managerial administration; utilization of managerial techniques in decision making.

*5333 (333) Problems in Business Administration. Credit, 3 or 6 hours. The student is here given the opportunity to work in the field of his special interest, particularly in the subjects of accounting, business law, marketing, statistics, finance, and insurance. The course will be conducted by conferences between the student and instructors concerned. Problems will be assigned as nearly as possible for the needs of the individual student.

5356 (356) Materials and Procedures in Commercial Subjects. (3-0) Credit, 3 hours. Teaching and learning materials and procedures in commercial subjects taught in high school and junior college.

Also offered as Business Education 5356.

*5358 (358) Workshop in Business Education. Credit, 3 or 6 hours. A workshop course in the problems of the business teaching in the high school and junior college; organization, administration, and supervision of business education; the business curriculum; problems of instruction; other practical problems of business teaching.

*May be repeated once for additional credit.

A basic business administration course is typewriting.
HOME ECONOMICS

Professor Little
Associate Professors Coleman, Short
Assistant Professor Bohac
Instructors Buckner, Porter

BACHELOR OF SCIENCE IN HOME ECONOMICS DEGREE

Plan III*

Plan III is the curriculum which qualifies one for the Provisional Vocational Homemaking Certificate, coded 164, the certificate needed to teach in a vocational homemaking program in Texas. A second teaching field is recommended but not required.

This curriculum also qualifies one for home demonstration work, or home economics in business.

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<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
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<tr>
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</table>

*Texas Education Agency designation.*
PLAN I*

Plan I is the teaching education curriculum which qualifies one for the Special Home Economics Certificate, coded 204. This certificate limits the teaching of homemaking to non-vocational programs. A second teaching field is required, and a certificate would be awarded in that field.

<table>
<thead>
<tr>
<th>Freshman Year</th>
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<th>Sophomore Year</th>
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<td>History 1310, 1320</td>
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<td>Speech 1310</td>
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<td>(or Bible), 3213</td>
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<td>31</td>
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</table>

The 24 hours of Home Economics referred to in Plan I may be selected from the following arrangements:

A. General
   Six hours from 1340 or 2343, 3346.
   Six hours from 1330 or 2332, 3335 or 3339.
   Six hours from 3363, 3325 or 3326.
   Six hours from 1310 or 3313, 3315.

B. Emphasis on clothing and textiles—140 or 2343, 1320, 3346, 3347, plus 12 semester hours in home economics.

C. Emphasis on food and nutrition—1320, 1330, 2332, 3335, or 3339, plus 12 semester hours in home economics.

*Texas Education Agency designation.
D. Emphasis on child development and family relationships — 1320, 1310, 3315, 3313, plus 12 semester hours in home economics.

E. Emphasis on housing and management — 1320, 3363, 3325, 3326, plus 12 semester hours in home economics.

GENERAL HOME ECONOMICS

The General Home Economics curriculum is planned for those who do not want a teaching certificate. It differs from Plan I in that electives are substituted for the 18 semester hours of education.

The field of home economics in business is open to these graduates.

COURSES IN HOME ECONOMICS

Most of the subject matter courses in home economics are open to non-majors as electives.

1310 (22) The Young Child. (3-1) Credit, 3 hours. Fundamental principles underlying behavior and methods of working with the pre-school child. Emphasis on the child as a family member, including health, safety and feeding of the child. Beginning observation and participation in the nursery school.

1320 (12) Consumer Buying. (3-0) Credit, 3 hours. Selection, use, and care of consumer goods; evaluation of buying practices, advertising, and labeling; study of available consumer services.

1330 (21) Basic Foods. (3-2) Credit, 3 hours. Emphasis on meal planning and preparation, utilizing basic principles; food purchasing and care.

1340 (11) Basic Clothing. (3-2) Credit, 3 hours. Emphasis on selection of clothing and basic principles of construction.

2332 (63) Meal Management. (3-2) Credit, 3 hours. Planning, preparing, and serving meals for families at different income levels with emphasis on meeting nutritional needs of individual members; meals for special occasions, food preservation and storage.

2343 (67) Pattern Study and Tailoring. (3-2) Credit, 3 hours. Study of commercial patterns; construction of master patterns; flat pattern designing; tailoring.

3217 Home Nursing. (2-4) Credit, 2 hours. Prepares qualified instructors for home care of the sick, enabling them to issue Red Cross cards of certification; covers prenatal and postnatal care of mother and infant.

3309 (121) Problems in Foods and Clothing. (3-0) Credit, 3 hours. The selection and utilization of foods, textiles, and clothing as related to our culture.
3313 (137) **Child Development.** (3-2) Credit, 3 hours. Development of the total child and the responsibilities of family members in promoting this development; observation and participation in nursery school.

3315 (103) **Home and Family Life.** (3-0) Credit, 3 hours. Study of the elements of successful homemaking in the modern family with particular emphasis on responsibilities of family members in establishing a home, and on preparation for parenthood.

3319 (129) **Management Processes and the Family.** (3-0) Credit, 3 hours. The family and its members in relation to the management processes in the home.

3325 (132) **Home Management.** (3-2) Credit, 3 hours. A study of management of time, energy, and money in the home; selection, use and care of household equipment, furnishings and appliances in relation to family values; care and protection of family members.

3326 (133) **Home Management Residence.** (3-2) Credit, 3 hours. At least six weeks of supervised experience in application of principles of management in home residence. In lieu of residence in the home management house, married students maintaining a home in the community and mature experienced homemakers with the permission of the head of the department, may work on personal managerial problems under supervision.

3335 (123) **Nutrition.** (3-2) Credit, 3 hours. Fundamentals of human nutrition; development of critical judgment with regard to food fads and quackery; scientific standards for meal planning and selection.

3339 (175) **Nutrition and Health.** (3-0) Credit, 3 hours. The relationship of diet to physical, mental, and emotional health, to the progress of schools, communities, nations and the world; emphasis upon the essentials of an adequate diet, the functions of those essentials, and the nutritive properties of common food materials; information on marketing, meal planning and food preparation as aids in meeting nutritive needs at low cost.

(This course is open as an elective to all students in junior or senior rank except those enrolled under the curriculum leading to the degree of Bachelor of Science in Home Economics. It has special relevancy for those making a major in Elementary Education or Health or Physical Education.)

3346 (107) **Textiles.** (3-0) Credit, 3 hours. Study of the textile fibers, yarns, fabric construction and finishes; use and care of fabrics for clothing and household furnishings.

3347 (113) **Advanced Clothing.** (3-2) Credit, 3 hours. Survey of history of costume. Study of techniques of draping and application of design principles to costume planning and selection.
3363 (109) Home Design. (3-2) Credit, 3 hours. Application of the basic art principles in planning, decorating, and furnishing a home for modern living. Emphasis on beauty and efficiency.

4336 (209) Food and Nutrition Problems. (3-0) Credit, 3 hours. Review of recent research in foods and nutrition; survey of current food and nutrition problems of families; study of methods of helping families increase their information and improve their skills in managing more effectively their food and nutrition problems.

4348 (250) Trends in Clothing. (3-0) Credit, 3 hours. Designed to give an understanding of trends and techniques in the fields of clothing and textiles.

4365 (212) Housing. (3-0) Credit, 3 hours. Emphasis on designing living space to promote fullest development of individuals involved; attention to low-income housing and to community, regional and national organizations that can aid families in meeting housing needs; study of new developments in materials, building, and services, and of recent research and resource materials in family housing.

5318 (307) Family Living. (3-0) Credit, 3 hours. Factors contributing to the changing patterns of family life and the role of homemakers in creating and maintaining environments conducive to the best development of family members; emphasis on reports of research and resource materials relating to child development and family relations; study of agencies organized to assist families.

HOME ECONOMICS EDUCATION

3380 (143) Observation and Methods in Vocational Homemaking. (3-2) Credit, 3 hours. Introduction to objectives and methods of teaching and evaluating results; observation in school and community programs; development of homemaking curriculum based on the needs of adolescents; evaluation of resource materials; formation of a workable philosophy of homemaking education. This course is a prerequisite to student teaching.

4384 (193) Problems in Teaching Homemaking. (3-0) Credit, 3 hours. Treatment of individual teaching problems relating to specific situations in the development of a functioning homemaking program in school and community.

4681 (291, 292) Student Teaching in Homemaking Education. Credit, 6 hours. This course provides opportunity for student teachers in home economics education to observe and participate in the total school program, and do student teaching in the homemaking department of the high school. During the student teaching experience, the college student spends the full day for one-half semester or the equivalent of one-half day for the entire semester in the teaching center. If teaching is done off-campus, the student lives in the local community. Guidance in student teaching is a joint responsibility of both local supervisory homemaking teachers and college teacher trainers.
5385 (331) Evaluation in Home Economics. (3-0) Credit, 3 hours. Study of the principles and techniques of evaluation; construction of new type tests and other evaluation devices for use in measuring achievement in all phases of homemaking.

5386 (334) Program Development. (3-0) Credit, 3 hours. Year-round programs of homemaking for different age groups, using materials of Home and Family Life Education Division of the Texas Education Agency and other materials designed to assist groups in developing their own plans to meet local community and individual needs in homemaking.

5387 (336) Trends in Teaching Homemaking. (3-0) Credit, 3 hours. Particular emphasis given to the teaching of family relations, child development, consumer buying, and home management.

5388 (341) Homemaking for Out-of-School Youth and Adults. (3-0) Credit, 3 hours. Designed primarily for students with teaching experience who wish to work under supervision on homemaking education for out-of-school youth and adults.

A home economics student discusses home nursing.
INDUSTRIAL ARTS

Professors Bowers, Deck
Associate Professors Ballard, Harris
Assistant Professor Hopson
Instructors Windham, Yarchuska

The general objectives of the department of Industrial Arts are:

1. To prepare industrial arts teachers for teaching careers in the junior and senior high schools of Texas.
2. To furnish a suitable program of technical education for those who plan to seek careers in industry at the junior engineering and technician levels.
3. To provide pre-engineering courses for students seeking engineering careers.
4. To provide service courses for other departments of the college.

Outlines of the two available programs follow.

BACHELOR OF SCIENCE IN INDUSTRIAL ARTS DEGREE

(128 hours; includes certificate)

Notes:

1. This is Plan III of the Texas Education Agency with certification in industrial arts only, in which area 48 hours are required.
2. No minor is required.
3. Fourteen hours minimum are required in two of the following: science, mathematics, foreign language.

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<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
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### GENERAL INDUSTRIAL ARTS PROGRAM

**Notes:**

1. Major requirement is 48 semester hours.
2. No minor is required.

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<th>Hours</th>
<th>Sophomore Year</th>
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A student wishing to make a teaching minor in industrial arts will be expected to complete a total of 24 semester hours of work selected in conference with the director of the department. Twelve semester hours must be advanced work.
1313 (13) Engineering Drawing. (3-3) Credit, 3 hours. The purpose of this course is to provide industrial arts, pre-engineering, and other students primary information and laboratory experience in drafting. Tools and techniques utilized in the preparation of various working drawing for use in industry are emphasized. Assignments include lettering, geometric construction, sketching, reading orthographic drawings and preparing working drawings for wood, metal, electrical, aircraft, piping, machine tools and other industrial applications.

1319 (19) Descriptive Geometry. (3-3) Credit, 3 hours. The principles of multiview projections are studied intensively, and problems are solved in each unit: Principal views, primary auxiliary views, secondary auxiliary views, planes, parallelism, perpendicularity, angle between planes, revolution, double-curved and warped surfaces, intersections, developments, and engineering applications. Content of the course emphasizes the graphical solution of problems involving points, lines, and planes in space.

1320 (17) Woods. (2-4) Credit, 3 hours. Furniture and other small projects selected to be made in the course will afford practice in all the hand tool operations used in bench woodwork. A study in the growth and structure of the tree; kind of wood and their properties, use and care of hand tools; and finishing procedures will be stressed.

1330 (21) Metals. (3-3) Credit, 3 hours. This is an introductory course in metals. Emphasis is given to study and discussions of common metals utilized by industry. Students will complete laboratory work involving the basic processes of oxy-acetylene, arc, and heliarc welding, forging, heat treatment, and ornamental iron.

1350 (33) Photography. (2-4) Credit, 3 hours. An introductory course in black and white photography stressing the basic fundamentals of the photographic process. Use of modern cameras and accessories. Procedures in making pictures from exposed sensitive materials to completed prints. Competencies in darkroom procedures.

2310 Machine Drafting. (3-3) Credit, 3 hours. A course involving study of machines, machine parts, fastenings, tools, dies, sheetmetals, patterns and production drawings. Subject matter is taught by drafting complex machines in multiview and pictorial projection studying standard machinery design and fabrication methods, and doing independent work in elementary machine design.

2320 (75) Woods. (2-4) Credit, 3 hours. The course emphasizes the use, maintenance, and repair of woodworking machinery. Detailed studies, demonstrations, and reports made in connection with each piece of equipment. Safe practice in machine operation is stressed. Emphasis is placed in industrial finishing techniques. Visits to factories are planned. Students construct advanced projects.

2330 (79) Metals. (2-4) Credit, 3 hours. This course introduces the student to machine metals. Lectures and demonstrations deal with various operations of the lathe, drill press, shaper, and milling machine. Precision
tools and measurement techniques are demonstrated. Related technical information is given through lectures and student reports. Visits are made to industries to observe production techniques.

2365 (65) Printing. (3-3) Credit, 3 hours. This course is designed to give the student an introduction to the printing industries, and composition proof reading, make-up, press work, together with other processes involved in letterpress printing are studied. Students are introduced to offset printing methods, silk screen work, and bookbinding. Individual projects and school projects are completed.

2370 (87) Electricity. (3-3) Credit, 3 hours. This course will deal with the fundamental principles of electricity as applied to the fields of lighting, heating, testing, generation and transmission, motors and generators, and test instruments.

3310 Industrial Design. (3-3) Credit, 3 hours. The application of the principles and fundamentals of design, analysis, creation, and development of projects utilizing principles present in acceptable forms of visual communications, consumer products, commercial equipment, and production. Students will solve research design problems and build actual models of designs using materials and methods presently in use to create better products for our society.

3313 (135) Architectural Drafting. (3-3) Credit, 3 hours. This course provides study and laboratory experiences in architectural drafting and home planning. Consideration is given to exterior and interior design of the home, essentials of heating, lighting, ventilation, sanitation, and legal aspects of homebuilding. Study is made of various structural systems in wood, concrete and metal. Complete plans for a residence will be made by each student.

3320 (133) Woods. (2-4) Credit, 3 hours. This course provides opportunity for the student to develop additional skills in furniture and cabinet making. Lectures and demonstrations will include new materials available for use in woodwork, elements of upholstery, and trends in modern furniture design. Factories and stores will be visited. Students complete a research paper on some phase of the wood industries.

3340 (129) Power Technology. (3-3) Credit, 3 hours. This is an introductory course in the study of modern power. Emphasis is given to the theory, design, and principle of operation of various power units. Laboratory experiences involve disassembly, testing, and operation of live engines of the gasoline, diesel and steam type.

3350 (153) Photography. (2-4) Credit, 3 hours. This course provides the student possessing a basic knowledge of photography with opportunity to develop advanced skills in darkroom procedures. Elements of pictorial composition involving lectures, demonstrations, and field trips into the surrounding hill country. Fundamentals of portrait photography and studio lighting. Studio assignments.
3365 (165) Printing. (2-4) Credit, 3 hours. This course gives the student opportunity to develop additional skill in letterpress, planographic, and Intaglio printing. Photo-engraving, plate-making, engraving, and lithography are studied. Advanced projects in printing are selected on an individual basis.

3370 (119) Introduction to Industrial Electronics. (3-3) Credit, 3 hours. This course develops additional knowledge and skill in electronic content related to communication, transportation, electrical power, and test equipment.

3380 Industrial Crafts. (2-4) Credit, 3 hours. Offers opportunities to gain experiences in leather, plastics, enameling, wood, and art metal crafts. Industrial Crafts offers opportunities for the student to gain experience in a variety of crafts.

3381 (115) The Refurbishment of Home Furnishings. (3-3) Credit, 3 hours. Lectures and laboratory activities dealing with general painting, decorating, and finishing problems around the home. Refinishing of furniture; procedures in repair and replacement of upholstery.

3385 (117) History and Philosophy of Industrial Arts. (3-0) Credit, 3 hours. A study of contemporary philosophies and procedures in industrial arts education including a careful study of the program outlined for use in the secondary schools in Texas.

3386 (159) Industrial Arts for Teachers of Elementary Grades. (3-3) Credit, 3 hours. This course is designed to afford elementary teachers an opportunity to gain experience in the use of tools, materials, and projects adapted to the manual skills of the elementary child, and thus to qualify them to make practical, inexpensive addition to the activity center of the elementary schoolroom.

4310 Technical Drafting. (3-3) Credit, 3 hours. A course involving study and instruction in the application of basic principles of engineering drawing to the various phases of drafting such as structural steel, electrical, piping, aerospace, topographics, patent office, jigs, fixtures, and industrial illustrations. Standard handbooks, tables, and engineering data are studied in each area.

4330 (125) Metals. (2-4) Credit, 3 hours. This course provides advanced experiences in metalwork including metal spinning, art metal, sheetmetal, foundry, and heat treating. Students work on individual basis.

4340 Power Technology. (2-4) Credit, 3 hours. This course provides advanced study in Modern Power. The jet engine, turbine engine, free piston engine and other new types of power devices receive emphasis in the course. Students perform experiments in the laboratory utilizing cutaways, mock-ups, live engines, and power analysis equipment.

4366 (175) Problems in Graphic Arts. (2-4) Credit, 3 hours. This course will serve students who wish to develop abilities in some specific
phase of the graphic arts for its application in such fields as journalism, art, or business. This course will be taught on a general shop basis. Suggested development areas are: typographic design, lithographic printing, block printing in monochrome and color, photomechanics, photoengraving, and bookbinding.

4370 Advanced Industrial Electronics. (3-3) Credit, 3 hours. A course directed to industrial electronics. Characteristics of vacuum and gas tubes. Principles and applications of electronic circuits including rectifiers, amplifiers, oscillators and control tubes and transistors.

4380 (210) Safety Education. (3-0) Credit, 3 hours. This course will deal with education for safety in the home, in the school building, on the playground, in industry, on the farm, on the highway, in recreation and in play; liability and responsibility.

4381 (225) Organization and Maintenance of Industrial Arts Laboratories. (3-3) Credit, 3 hours. Organization and management procedures for industrial arts laboratories in the secondary schools. Budgetary and inventory procedures; record systems; personnel organization and control; safety precautions; maintenance of machines, furniture and supplies.

4383 (118) Driver Education. (3-3) Credit, 3 hours. This course is designed to help students become aware of traffic problems, determine limitations of drivers, develop positive driver attitude, study traffic laws and regulations, develop or improve driving skills, and train teachers in driver training.

4384 (127) Laboratory Planning and Equipment Selection. (3-0) Credit, 3 hours. This course is designed to give prospective teachers practice in planning, equipping, and organizing the school laboratory. Principles of appraising school shops are developed and used on visits to school laboratories. Students develop plans, equipment and tool lists. Source of supplies and proper nomenclature for requisitioning are discussed.

5380 (325) Problems in Industrial Arts. (3-0) Credit, 3 hours. This course affords graduate students opportunity to do additional research in industrial arts. The course is offered by conference. Students are allowed to choose a problem based upon individual needs and interests. Professional, technical and industrial problems may be proposed for study.

5381 (321) Industrial Methods and Production Technique. (3-0) Credit, 3 hours. This course will furnish industrial arts teachers with some selected information regarding the structure of modern manufacturing methods and techniques. Students gain insight into enlightened industrial practices. Selected examples will be studied with a view toward identifying the technology of a specific industry and analyzing its methods so that basic principles of production and selected techniques may be brought to students in the typical school situation.

5382 (322) Housing and Industrial Arts. (3-0) Credit, 3 hours. A study of policies and practices in the construction and allied industries and
their relationships to the production of housing. The development of teaching materials dealing with selected aspects of housing as a community, family, and individual problem. The determination of housing studies within the framework of industrial arts.

5383 (330) Evolution of the Industrial Arts Concept. (3-0) Credit, 3 hours. A graduate course designed to afford advanced students an opportunity to gain appreciation and understanding of the origins and development of industrial arts as an area in our school curriculum.

*5384 (333) Technical Problems in Industrial Arts. (3-3) Credit, 3 hours. This course is planned for the industrial arts teacher who needs to become acquainted with new developments within the industrial arts curriculum and for the graduate student who desires to strengthen certain experiences initiated in undergraduate courses. Plans will be developed upon an individual basis. Results will be submitted in a form suitable for publication.

5385 (335) Modern Industries. (3-0) Credit, 3 hours. This course is designed to assist teachers of industrial arts with the problem of guiding high school students to sources of information relative to technical, social, and economic aspects of modern industries. Individual and group studies will be made. Results will be submitted in a form suitable for publication.

*5386 (340) Workshop in Industrial Arts. (3-0) Credit, 3 hours. This course has been planned to afford experienced industrial arts teachers with an opportunity to work on professional and curriculum problems directly related to their positions and interests. Work may be accomplished on an individual basis, but reports, discussions, and jury appraisal will be characteristic of group studies.

5387 Planning Advanced Industrial Arts Laboratories. (3-0) Credit, 3 hours. Studies in depth of architectural, engineering and educational problems encountered in designing, equipping, arranging and specifying facility requirements for advanced industrial arts courses at the senior high school level.

5699 (399) Thesis. Credit, 6 hours.

*May be repeated once for additional credit.
Owing to its location this college offers an almost ideal place for the study of biology. Situated as it is on the edge of the Edwards Plateau there is easy access to both the fertile coastal plain to the south and the broken hilly semi-desert to the north. The fault-line which divides these two areas has tapped many underground streams which provide large clear lakes and rivers rich in rare animals and plant life waiting only for the biologist. In fact, it has been said that the student of biology here finds himself in the midst of a veritable vivarium.

The courses offered in biology are designed to prepare students to teach biology in high schools and in the elementary grades. They are also planned to aid students majoring in agriculture, home economics, physical education, and chemistry. They are fundamental for students desiring to do graduate work in the biological field, and for those wishing to study medicine, dentistry or nursing, for they develop various techniques and skills in these related fields as well as stress the underlying biological principles.

The Charles Spurgeon Smith Memorial Award is made annually to an outstanding biology major. For further information, see Scholarships.

An undergraduate major in biology consists of a minimum of 28 hours and a maximum of 36 hours. It is suggested that students who anticipate immediate graduate work in science refrain from absolving Biology 4310, 4320, and Biology 4340, 4350, and 4330 on the undergraduate level. Pre-medical students and others will, with proper authority, be permitted to make such modifications in the foregoing program as may be dictated by their eventual professional requirements.

A program of Medical Technology is available to interested students.
2. Certification is available in a second field other than chemistry but will require extra hours.

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<th>Sophomore Year</th>
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**BACHELOR OF SCIENCE IN EDUCATION DEGREE**

(128 hours; includes certificate)

**Note:**

Plan II—certification is in science only.

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<th>Sophomore Year</th>
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### Senior Year

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| Total                        |       |                               |       |

### BACHELOR OF SCIENCE DEGREE

(128 semester hours)

**Notes:**

1. Recommended minor is chemistry.

2. Permissive maximum hours in major is 36.

### Freshman Year

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| Total                        |       |                               | 36    |

### Sophomore Year

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| Total                        |       |                               | 33.34 |

### Junior Year

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| Total                        |       |                               | 33-34 |

1410, 1420 (11, 12) **General Biology.** (3-3) Credit, 4 hours each. A general course dealing with the principles of biology including considerable study of the structure and function of plant and animal life. Biology 1410 is primarily concerned with the study of biological principles and botany. The anatomy and physiology of the plant groups are studied in the laboratory as are biological principles.
Biology 1420 includes the study of the animal kingdom, human organ systems, and heredity. Examples of the various animal groups and the dissection of the frog are studied in the laboratory.

2310, 2320 (51, 52) Physiology and Anatomy. (2-3) Credit, 3 hours each. A course in human physiology and anatomy intended primarily for students making a major or minor in health and physical education.

2340, 2350 (61, 62) Human Physiology. (3-3) Credit, 3 hours each. A course in human physiology devoted to the study of digestion, metabolism, glands of internal secretion, respiration, circulation, human reproduction, and the muscular and nervous system in which emphasis is placed not only on the scientific aspects of the topics considered but also on their application to health and hygiene.

A year of chemistry or biology should be completed prior to registering for this course.

2430 (63) Physiology and Hygiene. (3-4) Credit, 4 hours. A one-semester course in human physiology covering the various organ systems. A very brief survey of microbiology is included.

This course is specifically designed for (1) biology majors requiring only a one-semester human physiology course, and (2) home economics majors.

3305 (101) The History and Philosophy of Science. (3-0) Credit, 3 hours. A course which treats the literature devoted to records of the life and times of the outstanding philosophers in the fields of science. The course is designed to create an appreciation of the philosophy of science, the value of the scientific method, and the part science has had in the evolution of human institutions.

This course is not designed primarily for science majors. It is open to any student with one year of science and at least junior standing.

3320 (163) Advanced Human Physiology. (3-3) Credit, 3 hours. This course places emphasis on the skeletal and muscular systems and goes further into certain selected aspects of the circulatory, respiratory, digestive and nervous systems.

The laboratory includes a study of anatomy (stressing the above systems) and various experiments and measurements relating to these systems.

This course is designed specifically to meet the needs of physical education majors and minors.

3340 (113) Bacteriology. (2-6) Credit, 3 hours. Principles of bacteriology, morphology, physiology, and taxonomy of representative groups of non-pathogenic bacteria. Laboratory methods are stressed and detailed studies are made of pure cultures. Laboratory analysis is made of water, soil, and milk. A brief preview of food bacteriology, public health services, and immunization is included. It is advisable that some chemistry be com-
pleted, preferably some organic chemistry, prior to registering for this course.

3345 (114) Bacteriology. (2-6) Credit, 3 hours. A study of pathogenic bacteria and the relationship of bacteria to disease. Consideration of the principles of immunology and serology.

This course is open to students who have completed Biology 3340 or its equivalent.

3350 (115) Genetics. (3-3) Credit, 3 hours. The course embraces a study of plants and animal genetics. The subject matter deals with inheritance patterns in domestic plants and animals and in the human family.

Breeding experiments are conducted in the laboratory utilizing Drosophila to illustrate principles of heredity.

The course is presented to meet the needs of students of biology and agriculture.

3360 (165) Plant Taxonomy. (3-3) Credit, 3 hours. The course includes the principles of identification and classification of plants. Attention is given to nomenclature and characteristics of various plant groups with emphasis on the higher plant.

3365 (169) Plant Physiology. (3-3) Credit, 3 hours. The basic principles of plant physiology are covered both in lecture and laboratory. One year of biology or chemistry should have been completed prior to registering for the course.

3480, 3490 (111, 112) Histology and Embryology. (3-6) Credit, 4 hours. The first semester is primarily a laboratory course in microtechnique and histology. The second semester deals with the early phases of comparative embryology; the development of the amphioxus, frog, chick and mammal. It is urged that Chemistry 2410, 2420 be completed or taken concurrently with this course.

Either half of this course may be elected for four semester hours of credit independent of the other.

3495 (119) Comparative Vertebrate Anatomy. (3-6) Credit, 4 hours. This course embraces a study of the comparative structural evolvement of the vertebrate body.

The laboratory work consists of dissection and study of Amphioxus, Lamprey, Dogfish, Necturus, a reptile, a bird and/or a mammal.

This course is designed to suit the needs of biology majors and minors, pre-medical and pre-dental students. Pre-laboratory technicians and pre-nurses may find this course desirable.

4301 (219) Cytogenetics and Evolution. (3-2) Credit, 3 hours. A course of study in which basic genetic principles are applied in the interpretation of such phenomena as Natural Selection, Adaptation, Genetics of Populations, Speciation and Man's future. Consideration is given to the origin of life, nature of chromosomal variation, evolution of genetic sys-
tems and certain other selected topics. Laboratory is by special arrangement averaging about two hours per week. Open to students who have completed Biology 3350 or its equivalent.

4305 (251) Nature Study. (3-3) Credit, 3 hours. Planned for elementary teachers who wish to use nature materials in the teaching of elementary science. The use of the local environmental resources is stressed. This course includes the study of birds, insects, trees, flowers, and elementary astronomy.

*4310, *4320 (221, 222) Ecology. (3-3) Credit, 3 hours each. The class work involves a study of the basic principles of ecology while the laboratory gives the student an opportunity to study the natural history of the plants and animals of central Texas under field conditions. The location of the Federal Fish Hatchery, the State Fish Hatchery, and the great natural springs of this area having a uniform temperature throughout the year furnishes the college with an unusual outdoor laboratory for the study of fresh water biology at the very edge of the campus. Moreover, the semi-desert conditions prevailing in the hills to the north of the springs, and the fertile valley of the San Marcos River to the south furnish wide opportunity for the study of plant and animal ecology.

Either half of this course may be elected for three semester hours of credit independent of the other.

*4330 (233) Experimental Techniques. (2-3) Credit, 3 hours. This course is devoted to methods applicable in biological investigations. Special emphasis is placed on respiratory techniques and other methods specifically related to cell physiology. Attention is given to library work, as well as the reporting of scientific data.

*4340, *4350 (231, 232) General Physiology. (3-3) Credit, 3 hours each. Biology 4340 considers principles basic to cell physiology (colloidal systems, surface phenomena, osmotic pressure, permeability, etc.), and culminates in a discussion of protoplasm. Biology 4350 consists of selected topics such as photosynthesis, bioluminescence, muscle mechanics, bioelectrics, cell correlation, and frequently includes some intermediary metabolism.

Either half of this course may be elected for three semester hours of credit independent of the other.

5390 or 5690 (310) Problems in the Biological Sciences. Credit, 3 or 6 hours. This course is open to graduate students on an individual basis at any time by arrangement with the faculty member concerned.

5699 (399) Thesis. Credit, 6 hours.

* May be taken as a graduate course with approval of the Dean of Graduate Studies.
3310, 3320 (111, 112) General Science. (3-2) Credit, 3 hours each. A laboratory course designed to acquaint the student with the fundamentals of physical, biological, and earth science.

4307 (200) Teaching the Sciences. (3-0) Credit, 3 hours. This course, required of all students who are candidates for graduation with a teaching major in biology, chemistry, or physics, will stress the principles and methods of teaching the sciences at all levels in the public schools.

4309 (201) Earth Science. (3-3) Credit, 3 hours. This is a course designed to deal with the description and interpretation of earth phenomena. These phenomena are considered from the standpoint of their physical, chemical, biological and mathematical aspects. The student of earth science is introduced to such activities as field observations, methods of sampling, methods in making measurements, and the interpretation of data. The subject matter for the course is drawn from geology, meteorology, oceanography, and astronomy and astro-science.

General science student examines biological specimen through microscope.
It is the aim of the chemistry department to give the student fundamental training in chemistry in order that he will be prepared for teaching, the study of medicine, dentistry, pharmacy, engineering, and for employment in the field of industrial chemistry.

The department offers two baccalaureate programs, one leading to the Bachelor of Science in Education degree and recommended for those students planning to teach in the public secondary schools. The second program leads to the Bachelor of Science degree and is designed to satisfy the needs of the student who plans a career in industrial chemistry, to study medicine, or who intends to continue work toward advanced degrees in his field.

BACHELOR OF SCIENCE DEGREE

(128 semester hours)

Note:

Minors are available in biology, mathematics, or physics. Students should consult departmental advisor before making a selection.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
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<tbody>
<tr>
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* On leave 1963-1964
### CHEMISTRY

#### Junior Year

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### Senior Year

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### BACHELOR OF SCIENCE IN EDUCATION DEGREE

(128 hours; includes certificate)

Notes:

1. Plan I—certification is in chemistry and a second field to be chosen from biology or mathematics.

2. Certification is available in other teaching fields, but will probably require extra hours.

#### Freshman Year

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<thead>
<tr>
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#### Sophomore Year

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### BACHELOR OF SCIENCE IN EDUCATION DEGREE

(128 hours; includes certificate)

Note:

Plan II—certification is in science only.
### Freshman Year

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### Sophomore Year

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### Junior Year

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### Senior Year

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<td>Electives</td>
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### Sophisticated Courses

1340, 1350 (43, 47) **Chemistry for Students of Physical Education.** (3-2) Credit, 3 hours each. Chemistry 1340 is designed to cover those fundamental principles of inorganic and organic chemistry needed for the understanding of the chemistry of foods, muscles, blood, respiration, urine, hormones and other selected topics considered in Chemistry 1350. Chemistry 1340 may not be taken for credit by those who previously have absolved Chemistry 1410, 1420.

1410, 1420 (11, 12) **General Chemistry.** (3-4) Credit, 4 hours each. The fundamentals of general chemistry are studied. The year's work includes a simplified presentation of the general theories of chemistry; and the preparation, properties, and uses of the more common elements and some of their compounds. A part of the second semester is devoted to general qualitative analysis and to the study of carbon compounds.

2410, 2420 (111, 112) **Organic Chemistry.** (3-3) Credit, 4 hours each. The general principles, theories, reactions, synthesis and preparations of elementary organic chemistry are presented. Special emphasis is laid on the classification, characteristics and structures of compounds. Laboratory work offers opportunity to study many typical reactions and to learn techniques of value in industrial chemistry. Pre-medical requirements are met in this course.

2440 (77) **Physiological and Food Chemistry.** (3-3) Credit, 4 hours. The aim of this course is to acquaint the student with the chemistry of foods and their physiological functions.
3320 (225) **Advanced Inorganic Chemistry.** (3-0) Credit, 3 hours. This course includes the study of atomic structures and properties related to the structures, periodicity of properties, chemical bonding, transition elements, complexions and coordination compounds, and an extension into non-aqueous systems of the concept of acids and bases.

3410 (61, 62) **Quantitative Analysis.** (3-6) Credit, 4 hours. This is a one-semester course dealing with the general theory and practice of the typical methods of gravimetric and volumetric analysis. It satisfies the quantitative analysis requirements for chemistry minors, pre-medical students, pharmacy students, and is required for chemistry majors.

*4315 Intermediate Organic Chemistry.** (3-0) Credit, 3 hours. Organic reactions are surveyed from a descriptive standpoint. Functional group and other bases of classification are considered.

4335 (233) **Advanced Qualitative Analysis.** (2-6) Credit, 3 hours. This is an advanced course in inorganic analysis. The work of the course consists of a study of analysis and detection of cations and anions with special emphasis on general analysis of ores, complex salts, alloys and commercial products. Experience is gained in the use of semi-micro technique.

4355 (227) **Organic Preparations.** (2-6) Credit, 3 hours. A study of and the application of the more important processes in organic synthesis is made. The purification of samples and the yields obtained is of importance. Procedures used and techniques acquired are of value to the student who desires to enter graduate work. Some time is given to glass blowing.

4370, 4380 (231, 232) **Biochemistry.** (3-2) Credit, 3 hours each. The first semester is devoted to a study of the chemistry of carbohydrates, liquids, proteins, vitamins and other cellular constituents; the second semester, to a study of digestion, absorption, intermediary metabolism and respiration. Emphasis is placed on the importance of enzymes in these processes.

The course is intended for students majoring in biology or chemistry and minoring in the other.

Prerequisite: Chemistry 2410, 2420 and six semester hours of biology.

4410, 4420 (211, 212) **Physical Chemistry.** (3-3) Credit, 4 hours each. The work of the first semester constitutes a study of the theory of gases, liquids and solids; properties of solutions, elementary principles of thermodynamics and thermochemistry. In the second semester, a study is made of equilibria, chemical kinetics, phase rule, electrochemistry, colloids, and quantum mechanics.

Prerequisite: Mathematics 2372.

*4430 (329) **Instrumental Analysis.** (3-4) Credit, 4 hours. This course includes the theory and technique of physico-chemical methods of analysis.

* May be taken as a graduate course with the approval of the Dean of Graduate Studies.
The principles underlying the analytical applications of spectroscopy, spectrophotometry, colorimetry, electrolytic separation of metals, potentiometric determinations, polarography, and ion exchange are discussed.

Prerequisite: Chemistry 4410.
Corequisite: Chemistry 4420.

5310 (312) **Advanced Organic Chemistry.** (3-0) Credit, 3 hours. This course is a study of the mechanisms and physical aspects of organic reactions. A presentation of chemical theory as applied to organic compounds and reactions will be made.

Prerequisite: Chemistry 2420 and 4420 or permission of the department.

5320 **Chemical Thermodynamics.** (3-0) Credit, 3 hours. The laws of thermodynamics are presented in a rigorous and fundamental manner. Applications of thermodynamics in thermochemistry, chemical equilibrium, and electrochemistry are studied. Relations between the laws of thermodynamics and the structure of matter and energy are discussed briefly.

Prerequisite: Chemistry 4410, 4420.

5330 (327) **Qualitative Analysis.** (2-6) Credit, 3 hours. This is a laboratory study with lectures on the principles underlying the general scheme for the solution of problems in the identification of organic compounds.

*5370 (313) **Problems in Chemistry.** Credit, 3 hours. This is a course which is open to graduate students on an individual basis at any time by arrangement with the faculty member concerned.

5699 (399) **Thesis.** Credits, 6 hours.

*May be repeated once for additional credit.
The courses offered by the mathematics department are specifically designed to meet the needs of the following classes of students:

1. To prepare teachers of mathematics on the elementary, junior high and senior high school level.

2. To provide the mathematics course required of pre-engineers.

3. To make available to students of the sciences, notably physics and chemistry, mathematics courses necessary not only for a successful study of these fields, but courses which will enable such students to pursue further work in these sciences with a secure mathematical background so necessary in this work.

4. To give to the student of pure or applied mathematics a solid and substantial background in undergraduate mathematics so that he can maintain a successful grade of work in case he elects to do further graduate work in mathematics or related field.

5. To provide for those students who study mathematics for the broad cultural benefits derived therein, since it is realized that mathematics has been so interwoven with the destinies of men through the ages that no one who aspires to real culture could do so without some knowledge of mathematical ideals and principles.

6. To provide related mathematics courses for other departments of the college.

A major in mathematics consists of 30 semester hours of work represented by Mathematics 1310, 1315, 1317, 2363, 2371, 2372, 4313, plus nine semester hours of advanced work.

A minor in mathematics consists of 21 semester hours of work represented by Mathematics 1310, 1315, 1317, 2363, 2371, 2372, and 3323.

Note: Solid geometry, unless offered for entrance credit, is required of all pre-engineers, majors, minors, and first and second teaching fields. In all cases Mathematics 1301 must be taken in addition to those hours required.

A student may not use toward graduation more than nine semester hours of credit in courses in mathematics of freshman rank, exclusive of the course in Solid Geometry, which may be additional.
Mathematics 3315 must be taken before or paralleled with Mathematics 4304, and Mathematics 4304 must be taken before Education 4681, if directed teaching is in mathematics.

A student who majors in mathematics is strongly urged to complete a minimum of 24 hours in physics and chemistry.

Note: First term freshmen who plan to make a major of mathematics or physics or to enroll under the pre-engineering curriculum, are advised to earn credit in Mathematics 1310, 1315, 1317, in the summer session immediately preceding the regular session in which they plan to enroll.

The Bachelor of Arts degree with a major in mathematics is available to interested students. For information contact the Dean of the College.

The major and minor in mathematics on the master's degree are available. See departmental chairman.

**BACHELOR OF SCIENCE IN EDUCATION DEGREE**

(128 hours; includes certificate)

Notes:
1. Thirty hours in mathematics are required.
2. A second field must be completed in which 12 hours are advanced.
3. Fourteen hours minimum are required in two of the following: mathematics, science, foreign language.

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<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
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<tbody>
<tr>
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</table>
Note: In certain cases, it may be advisable to pursue a less accelerated program in mathematics in the freshman year in accordance with the progress of the student in preliminary mathematics courses.

**BACHELOR OF SCIENCE DEGREE**

*(128 hours)*

**Notes:**

1. Thirty hours are required in mathematics.
2. The minor of 24 hours must be completed in biology, chemistry, or physics. The student must complete at least one year of both biological and physical science.
3. A certificate is available with this degree but may require extra hours.

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<tr>
<td>Science</td>
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<td>Electives</td>
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<tr>
<td><strong>33-35</strong></td>
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</table>

*Note: In certain cases, it may be advisable to pursue a less accelerated program in mathematics in the freshman year in accordance with the progress of the student in preliminary mathematics courses.*

1301 (15) **Solid Geometry.** (3-0) Credit, 3 hours. An elementary course in solid geometry which covers the following topics: properties of the plane, regular polyhedrons, prisms and cylinders, pyramids and cones, the sphere, and the traditional topic of the first course.

Prerequisite or parallel: Mathematics 1310.
1310 (11) **Basic Mathematics.** (3-0) Credit, 3 hours. A basic course in college algebra which satisfies the needs of mathematics majors and minors, as well as those of students of engineering, business administration, agriculture, home economics and other areas. Underlying principles of college algebra are stressed especially.

1313 (19) **Business Mathematics.** (3-0) Credit, 3 hours. A course designed for business administration students. A brief review of fundamental processes is followed by the study of simple and compound interest, the problems of trade and cash discount, retailing, ownership and corporate securities, social security, personal and business insurance, property tax, home ownership and similar topics. Particular emphasis is placed on the technique of practical problem solving.

Prerequisite: Mathematics 1310 or equivalent.

1315 (13) **College Algebra.** (3-0) Credit, 3 hours. A course in college algebra which continues the development studied in Mathematics 1310. As it is recognized that the needs of students differ, the topics are presented in such a way as to make the course as flexible as possible.

Prerequisite: Mathematics 1310.

1317 (17) **Plane Trigonometry.** (3-0) Credit, 3 hours. The principles, derivation of formulae, and applications of plane trigonometry. This course consists of a study of the trigonometric functions, trigonometric identities, related angles, radian measure, graphs of the trigonometric functions, functions of multiple angles, logarithms, right triangles, oblique triangles, inverse trigonometric functions, complex numbers.

2363 (63) **Analytic Geometry.** (3-0) Credit, 3 hours. A first course in analytic geometry of two dimensions, covering the following general topics: the point, loci, the straight line, the circle, conics, tangents, transformation of coordinates, parametric equations, and polar coordinates.

Prerequisite: Mathematics 1310 and 1317.

2371, 2372 (111, 112) **Differential and Integral Calculus.** (3-0) Credit, 3 hours. A first course in the differential and integral calculus. The process of integration is introduced early in the course, together with its application to the sciences. A wealth of theory, illustrative material, and applications are combined. The application of the calculus to the problems of natural science is especially stressed. While the applications of the calculus are not in any sense neglected, the course is sufficiently rigorous that the student of pure mathematics is enabled to secure a background which is entirely adequate for successful work in this field.

Prerequisite: Mathematics 2363.

2375 (75) **Engineering Mechanics.** (3-0) Credit, 3 hours. A course in statics designed to satisfy the requirements of engineering schools, and open to engineering and physics students. Topics considered consist of the following: principles of statics, resultants of force systems, equilibrium of force systems, analysis of structures, friction, force systems in space, centroids and centers of gravity, moments of inertia.
Prerequisite: Physics 1410, and credit or concurrent registration in Mathematics 2372.

3315 (115) **Modern Geometry.** (3-0) Credit, 3 hours. This is a study in modern geometry with emphasis upon the triangle and circle. It deals with the body of geometric truth which students of mathematics ordinarily have no chance of learning. All students who expect to teach high school mathematics should enroll for the course.

3319 (119) **The Theory of Equations.** (3-0) Credit, 3 hours. This course is intended for students who have completed the first course in calculus. Complex numbers and elementary functions of the complex variable are stressed. Many problems are solved both graphically and analytically. Angles that cannot be trisected and regular polygons that cannot be inscribed by methods of Euclidean geometry are included. The fundamental theorem of algebra is considered both from the geometric and algebraic standpoint.

3323 (123) **Differential Equations.** (3-0) Credit, 3 hours. A study of the more common types of ordinary differential equations, especially those of the first and second orders, with emphasis on geometrical interpretations, and applications to geometry, elementary mechanics, and physics.

Prerequisite: Six hours of calculus.

3327 (127) **Elementary Mathematics from an Advanced Standpoint.** (3-0) Credit, 3 hours. This course presupposes six hours of calculus. It is devised to give the student a comprehensive orientation in the field of pure and applied mathematics. The fundamental concepts of pure mathematics are vitalized by appealing to the student's space perception. The comprehension of the sum total of elementary mathematical science as a great connected whole is the unifying idea through this course.

4302 (200) **Materials and Methods in Arithmetic for Elementary Teachers.** (3-0) Credit, 3 hours. A professionalized course dealing principally with the fundamental topics in arithmetic, designed primarily for those preparing to teach arithmetic in the elementary grades. The course affords a background for the meaningful teaching of the beginning number concepts and counting, and the fundamental processes and their applications in problem solving.

Prerequisite: Senior standing.

4304 (204) **Mathematical Understandings.** (3-0) Credit, 3 hours. Includes a study of various number bases. Basic concepts and inter-relationships underlying algebra, geometry, and trigonometry are thoroughly developed. This course must be taken before student teaching.

Prerequisite: Mathematics 1310 absolved at this college, 2371, 2372, and prerequisite or parallel, 3315.

4305 (205) **Probability and Statistics.** (3-0) Credit, 3 hours. This course consists of basic concepts of probability such as sample space, probability of events, conditional probabilities, binomial and multinomial distributions,
random variables and normal approximations, and statistical inference with practical applications.

Prerequisite: Six hours of calculus.

4307 (207) Introduction to Modern Algebra. (3-0) Credit, 3 hours. This course includes studies of elementary notions of sets, algebraic structures and functions. It is designed to acquaint teachers of junior and senior high school mathematics with some of the viewpoints, basic concepts, and techniques of modern algebra.

Prerequisite: Six hours of calculus.

4309 (209) The Theory of Determinants. (3-0) Credit, 3 hours. A study of the elements of the theory of matrices and determinants. The course includes the consideration of such topics as fundamental operations of matrices, definition and properties of determinants, Cauchy and Laplace expansions, multiplication of determinants, application of determinants to solutions of systems of equations, applications of determinants to geometry, determinants of special form, and Jacobians.

Prerequisite: Six semester hours of advanced courses in mathematics, or consent of instructor.

4313 (213) Advanced Calculus I. (3-0) Credit, 3 hours. A study of limits and continuity, derivatives, differentials, functions of several variables, partial differentiation, definite integrals, multiple integrals, and line integrals. A valuable course for those persons who intend to do further work in mathematical analysis, chemistry or physics, and for pre-engineers.

*4315 (215) Advanced Calculus II. (3-0) Credit, 3 hours. A second course in advanced calculus consisting of the consideration of the following topics: Infinite series, power series, application of power series, improper integrals, elliptic integrals, Beta and Gamma Functions, implicit functions, Fourier series, Jacobians, and similar topics. Materials will be adapted to the specific needs of the class.

Prerequisite: Mathematics 4313

*4316 (216) Projective Geometry. (3-0) Credit, 3 hours. This course includes a study of the elementary processes of projection and section by the synthetic process. The following topics are included: The Elements and Primitive Forms, Principle of Duality, Perspectivity, Harmonic Sets, Theorems of Pascal and Bianchon, Projectivity Related Primitive Forms, Theory of Involution, Focal Properties of Conics, and Polarity.

Prospective teachers of geometry, engineers, and students of industrial arts will find this course both helpful and interesting.

Prerequisite: Six hours of advanced mathematics and the consent of the instructor.

4325 (225) Vector Analysis. (3-0) Credit, 3 hours. An introduction to vector analysis. A mathematical maturity on the part of the student which

* May be taken as a graduate course with approval of the Dean of Graduate Studies.
may be expected of one who has completed a first course in calculus is assumed. Applications of a wide and diverse nature are considered, with special emphasis on the applications to geometry and mechanics. The course is, however, mathematical in its treatment, and attempts to present in as simple a manner as possible the introduction to vector analysis which will lead naturally to its extension, tensor analysis.

*4373 (273) Theory of Functions of Real Variables. (3-0) Credit, 3 hours. This course pre-supposes such knowledge as the student will have who has completed the usual undergraduate course in mathematics, including a year's course of calculus and preferably an elementary course in differential equations or a course of advanced calculus. The purpose of the course is to discuss those topics which will enable the student to obtain a better grasp of the fundamental concepts of the calculus of real variables and to learn something of the more recent developments of this branch of analysis.

**5301 (301) Partial Differential Equations. (3-0) Credit, 3 hours. A course in the theory and application of partial differential equations. The following general topics are considered: Deduction of The Differential Equation; Use of Vector and Tensor Methods; Equations of the First Order; Wave Equations; Vibrations and Normal Functions; Fourier Series and Integral; Cauchy's Method; Initial Data; Methods of Green; Potentials; Boundary Problems; Methods of Riemann-Volterra; Characteristics.

Prerequisite: Mathematics 3323 and consent of the instructor.

5303 (303) History of Mathematics. (3-0) Credit, 3 hours. A study of the development of mathematics and of the accomplishments of men who contributed to its progress.

5305 (307) Advanced Course in Probability and Statistics. (3-0) Credit, 3 hours. A course consisting of advanced topics in probability and statistics.

Prerequisite: Mathematics 4305.

5307 (305) Modern Algebra. (3-0) Credit, 3 hours. A course consisting of the study of topics in modern algebra. Materials will be adapted to the needs of the class.

Prerequisite: Mathematics 4307.

**5309 (309) Foundations of Analysis. (3-0) Credit, 3 hours. A critical study of the bases of mathematical analysis. Material will vary according to the needs of the class.

**5311 (311) Foundations of Differential Equations. (3-0) Credit, 3 hours. A critical study of the foundations of derivative equations, operator spaces and such basic topics. Recent developments in this field will be investigated and independent investigation will be encouraged.

Prerequisite: Mathematics 3323 and consent of the instructor.

* May be taken as a graduate course with approval of the Dean of Graduate Studies.

**May be repeated once for additional credit.
*5312 (312) Functions of a Complex Variable. (3-0) Credit, 3 hours. A study of modern developments in the field of functions of a complex variable.

Prerequisite: Mathematics 4313 and consent of the instructor.

*5317 (317) Problems in Advanced Mathematics. (3-0) Credit, 3 hours. This course is open to graduate students on an individual basis by arrangement with the mathematics department. A considerable degree of mathematical maturity is required.

5699 Thesis. Credit, 6 hours.

* May be repeated once for additional credit.

Freshman math students find work at the blackboard helpful.
The courses offered by the Physics Department are designed primarily to meet the needs of those students who are majoring in physics and/or preparing to teach the subject in the high schools. The content of the courses also covers the requirements for students who are preparing for the various fields of engineering. Completion of a major in physics will give the student a good foundation for advanced courses in his graduate work.

Requirements for a major or minor in physics:

Major: Twenty-nine semester hours in physics represented by Physics 1410, 1420, 2410, 3410, 3411, and additional hours of advanced work to complete the requirements.

A student majoring in physics should absolve courses in mathematics through Differential Equations. Preferably, the student should make a minor of mathematics.

Minor: Twenty semester hours in physics represented by Physics 1410, 1420, 2410, 3410, and 3411. A second teaching minor consists of 24 semester hours.

Physics majors should choose elective courses from the fields of chemistry, biology, and industrial arts, and are encouraged to take English 2350 and 3317.

BACHELOR OF SCIENCE IN EDUCATION DEGREE
(128 hours; includes certificate)

Notes:
1. Twenty-nine hours in physics are required.
2. A second field must be completed, preferably mathematics, in which 12 hours are advanced.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Physics 1410, 1420</td>
<td>8</td>
<td>Physics 2410, 3410</td>
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</tr>
<tr>
<td>Second field</td>
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<tr>
<td>History 1310, 1320</td>
<td>6</td>
<td>English (literature)</td>
<td>6</td>
</tr>
<tr>
<td>English 1310, 1320</td>
<td>6</td>
<td>Speech 1310</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1310, 1315</td>
<td>6</td>
<td>Mathematics 1317, 2363</td>
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*On leave 1963-1964
<table>
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<tr>
<th>Junior Year</th>
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<tbody>
<tr>
<td>Physics 3411</td>
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<td>Physics, advanced</td>
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<td>Second field</td>
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<td>Electives</td>
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<td>Government 2310, 2320</td>
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<td>Humanities 3201 (or Bible), 3213</td>
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<tr>
<td>Mathematics 2371, 2372</td>
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</table>

**Note:** It may be necessary for one to make out a schedule which deviates from the above in order that the proper mathematics courses be taken to enable the student to take the calculus at the sophomore level.

**BACHELOR OF SCIENCE DEGREE**

(128 hours)

**Notes:**
1. Twenty-nine hours in physics are required.
2. A minor, preferably mathematics, must be completed.
3. A certificate is available with this degree, but may require extra hours.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Physics 1410, 1420</td>
<td>8</td>
<td>Physics 2410, 3410</td>
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</tr>
<tr>
<td>Mathematics 1310, 1315</td>
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<td>Mathematics 1317, 2363</td>
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<td>English 1310, 1320</td>
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<td>English (literature)</td>
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<td>History 1310, 1320</td>
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<td>Foreign Language</td>
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<td>Biology 1410, 1420</td>
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<td>Speech 1310</td>
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<th>Junior Year</th>
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<th>Senior Year</th>
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<td>Physics 3411</td>
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<tr>
<td>Electives</td>
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<td>31</td>
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</tbody>
</table>
Note: It may be necessary for one to make out a schedule which deviates from the above in order that the proper mathematics courses be taken to enable the student to take the calculus at the sophomore level.

1410, 1420 (11, 12) General Physics. (3-3) Credit, 4 hours each. Physics 1410 includes a study of the mechanics of solids, liquids, and gases and of heat; Physics 1420 of magnetism and electricity, sound, and light. Considerable emphasis is placed on the successful performance of laboratory experiments. Group demonstrations by the instructor and problem solving by the student are a part of this course.

Prerequisite: Mathematics 1310 is to be taken previously or concurrently, or the consent of the instructor.

2410 (65) Light, Sound, and Modern Physics. (3-3) Credit, 4 hours. In this course a theoretical and experimental study is made of the phenomena of light and sound. Application of light and sound to modern instruments is given attention. Special problems is spectroscopy and acoustics constitute a part of the course. Elementary modern physics is introduced in the course.

Prerequisites: Physics 1410 and 1420. Analytic geometry must be taken concurrently or previously.

3312 (117) Modern Physics. (3-3) Credit, 3 hours. This course deals with recent advances in physics. Modern theories concerning the structure of matter and various application of electronic devices are considered. The laboratory experiments include production of x-rays and the analysis of crystals with the aid of x-rays. The classroom work is supplemented by collateral reading and reports from students. Students who are to do their student teaching during the semester are to arrange for the laboratory in this course ahead of time.

Prerequisite: Twenty hours of physics or the consent of the instructor.

3313 (145) Electronic Circuits. (3-3) Credit, 3 hours. The course covers selected topics in electrical and electronic circuits. Students who are to do their student teaching during the semester are to arrange for the laboratory in this course ahead of time.

Prerequisite: Twenty hours of physics and the consent of the instructor.

3314 (161) Mechanics. (3-0) Credit, 3 hours. The course is designed to meet the needs of an approach to the field of mechanics in physics.

Prerequisite: Twelve hours of physics and the consent of the instructor.

3315 (113) Thermodynamics. (3-3) Credit, 3 hours. Consideration is given to the classical and modern problems in the field of physics. A study is made of selected topics of somewhat advanced nature in this branch. Students who are to do their student teaching during the semester are to arrange for the laboratory in this course ahead of time.

Prerequisite: Twenty hours of physics or the consent of the instructor.
3410 (100) Mechanics and Heat. (3-3) Credit, 4 hours. This course covers the fields of mechanics and heat at a somewhat higher level than that of Physics 1410. There are three lecture hours per week and three hours of laboratory.

Prerequisites: Physics 1410 and 1420, and the calculus, to be taken concurrently or previously.

3411 (115) Magnetism and Electricity. (3-3) Credit, 4 hours. A study is made of the laws governing the production, distribution and uses of direct and alternating currents. Emphasis is given to the accurate measurement of electrical quantities in the laboratory.

Prerequisites: Physics 1410, 1420, and Mathematics 2371, 2372.

4310 (205) Electric Instruments and Measurements. (3-0) Credit, 3 hours. The theory of electrical measuring instruments is considered in detail. Application of electric circuits used in electrical measurements and of electrical measuring equipment is emphasized.

Prerequisite: Physics 3411.

4311 (207) Nuclear Physics. (3-0) Credit, 3 hours. The material covered will include topics on radioactivity, radiation detectors, accelerators, nuclear reactions, and nuclear forces.

Prerequisite: Six hours of advanced physics and six hours of the calculus, or the consent of the instructor.

4312 (217) Kinetic Theory of Gases. (3-0) Credit, 3 hours. The classical aspects of the kinetic theory of gases and of statistical mechanics are considered.

Prerequisite: Six hours of advanced physics or the consent of the instructor.
The courses offered by the Department of Agriculture are designed to meet the current needs of farmers, ranchers, teachers of vocational agriculture, and other teachers of rural communities and small towns. Thus the department has for its main objectives: (1) to train teachers of vocational agriculture and other agricultural workers; (2) to assist in training other teachers for rural communities and small towns to have a deeper understanding and appreciation of the problems of farmers and ranchers; (3) to train men and women in the practical methods of farming and ranching in Southwest Texas; (4) to serve as a center to carry on activities of Future Farmers of America and 4-H Club members, e.g., livestock and poultry shows, judging contests, etc., (5) to provide technical information and agricultural leadership for farmers and ranchers; (6) to cooperate with all agricultural agencies in promoting more progressive methods of farming and ranching.

To graduate with a major in agriculture a student will be expected to enroll under the curriculum leading to the degree of Bachelor of Science in Agriculture.

**CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE**

**Notes:**

1. This is the Teacher Education Program.
2. Fifty-four hours in technical agriculture must be completed.
3. The secondary provisional certificate may be obtained by completing requirements for a second teaching field. Biology is strongly recommended.

<table>
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<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
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<tbody>
<tr>
<td>Agriculture 1313, 1333, 1345</td>
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<td>Agriculture 2367, 2473, 2379, 2383</td>
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<td>English 1310, 1320</td>
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<td>English 2370, 2380</td>
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<tr>
<td>History 1310, 1320</td>
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<td>Government 2310, 2320</td>
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</tr>
<tr>
<td>Biology 1410, 1420</td>
<td>8</td>
<td>Chemistry 1410, 1420</td>
<td>8</td>
</tr>
<tr>
<td>Speech 1310</td>
<td>3</td>
<td>Physical Education</td>
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</tbody>
</table>

**34**

**35**

*On leave 1963-1964*
AGRICULTURE

Junior Year       Hours       Senior Year       Hour
Agriculture 3317, 3351, 3425, 3326, 3454  17           Agriculture 3311, 4114, or 4115  4
Mathematics 1310  3           Agriculture electives, including
Biology 3340, 3350 6           one plant science and one
Science elective  3           animal science  12
Education         6           Humanities 3201
                                  (or Bible), 3213  4
                                  35           Agriculture Education 6
                                  Agriculture Education 4681  6
                                  32

GENERAL AGRICULTURE
(128 semester hours)

Freshman Year  Hours  Sophomore Year  Hours
Agriculture 1313, 1333, 1345  9           Agriculture 2367, 2383
English 1310, 1320  6           and elective  9
History 1310, 1320  6           English 2370,
Biology 1410, 1420  8           2380 (recommended)  6
Speech 1310         3           Government 2310, 2320  6
Physical Education  2           Chemistry 1410, 1420  8
                                  Mathematics 1310  3
                                  34           Physical Education  2
                                  34

Sophomore Year  Hours       Senior Year       Hours
Agriculture 3317, 3351, 3425, 3326  13           Agriculture 3454, 4114, or 4115  5
Biology 3340, 3350  6           Electives,
                                 at least 12 advanced  25
Humanities 3201
                                 (or Bible), 3213  4
                                  7           30
                                  30

COURSES IN AGRICULTURE

1313 (13) Field Crops. (2-2) Credit, 3 hours. This is a general survey of field crop production dealing with the importance of each crop and special cultural practices in growing them. The laboratory work affords the student an opportunity to handle and become acquainted with the various crops.
1333 (33) Farm Poultry. (2-2) Credit, 3 hours. A general course in poultry, including types, breeds poultry houses and construction, breeding, feeding, incubation and brooding, culling, diseases and insects.

1345 (45) Animal Husbandry. (2-2) Credit, 3 hours. An introductory course designed to acquaint the students with the importance of the livestock industry. A study of the types and breeds; market classes and grades of such animals as beef cattle, swine, goats, horses, and sheep; attention will be given to breeding, judging, care and management.

2313 (75) Forage and Pasture Crops. (2-2) Credit, 3 hours. The study of leading cultivated grasses, legumes, soilings crops, and silage crops as to establishment, seed production, production, harvesting, storage and uses. Special study will be given to the introduced grasses and legumes for temporary pasture.

2321 (61) Agrostology. (2-2) Credit, 3 hours. A study of grasses. Identification of the genera and species of economic importance in Texas will be stressed. Attention will be given to the economic value of the various grasses, their ecological significance, and to the distribution, propagation, and management of grasses.


2379 (79) General Horticulture. (2-2) Credit, 3 hours. A survey of the general field of horticulture; a study of the principles and practices of propagation; a study of the growth and fruiting habits of horticultural plants; and the culture, harvesting, handling and utilization of fruits.

2383 (83) Introduction to Agricultural Economics. (3-0) Credit, 3 hours. The history, principles, practices and problems of the agricultural economy.

2473 (73) Farm Shop. (2-4) Credit, 4 hours. Identification, selection, care and uses of hand tools and simple power machines. Planning and calculating bills of materials for farm buildings and equipment. Special areas of study are woodworking, tool fitting, arc welding, oxy-acetylene welding, sheet metal, cold metal work, pipe fitting, concrete, and painting.

3311 (111) Farm Power and Machinery. (1-4) Credit, 3 hours. Construction, operation, adjustment, and servicing of farm engines and tractors. Adaptability, selection, economic utilization, construction, operation, and adjustment of the principal tillage, planting, cultivation, harvesting, and feed processing machines.

3317 (117) Farm Management. (3-0) Credit, 3 hours. The art and business of managing a farm. This will include the study of choosing suitable major and minor enterprises that will provide a profitable business; such as selecting a farm, using proper kinds and amount of labor and
capital, simple and accurate cultural organizations, agriculture experiment stations and extension service.

3321 (121) **Range Management.** (2-3) Credit, 3 hours. A course dealing with the practical problems met in managing native pastures and range lands. Attention will be given to determining range condition and proper stocking rates, methods of handling livestock on the range, range reseeding, brush control and poisonous plants. The ecological and physiological response of range vegetation to grazing will be included.

3326 (126) **Soil Science.** (2-2) Credit, 3 hours. A study of the fundamental principles of soil science to acquaint the student with some physical, chemical and biological properties of the soil.

Prerequisite: Chemistry 1410, 1420 and junior standing in Agriculture.

3327 (127) **Soil Fertility and Fertilizers.** (2-2) Credit, 3 hours. A course for those desiring to study the principles underlying the maintenance of soil productivity. This course deals not only with those factors influencing the crop producing power of the soil, but also a study of the sources, nature and effects of various fertilizers on the plant and on the soil.

Prerequisite: Agriculture 3326.

3329 (129) **Economic Entomology.** (2-2) Credit, 3 hours. A study of the most common insects of field crops, fruits, vegetables, and farm animals as to life history, methods of attack, damage, means of combating; collection and mounts of insects will be made; insecticides will be mixed and applied for controlling insects.

3331 (131) **Animal Physiology and Reproduction.** (2-2) Credit, 3 hours. An examination of the anatomy and physiology of the basic animal body systems with emphasis on the male and female reproductive processes. The laboratory includes pregnancy testing, semen collection and evaluation, artificial insemination techniques, and evaluation of breeding records.

3333 (123) **Advance Poultry Husbandry.** (2-2) Credit, 3 hours. A study of the special problems and skills in breeding, feeding, and housing poultry commercially. Special emphasis will be given to disease and pest control, including diagnosis, prevention and treatments, practices in blood testing, posting, caponizing, culling, and grading market birds and eggs.

3345 (145) **Advanced Animal Husbandry.** (2-2) Credit, 3 hours. This course includes problems in all phases of animal husbandry, pertaining to beef cattle, sheep, goats, swine, and horses.

3351 (151) **Marketing.** (3-0) Credit, 3 hours. This course consists of studying market demands of quality, types and grades; methods of packing, transporting, and storing farm products. Attention will be given to the marketing agencies and channels of distribution.

3367 (115) **Advanced Dairy Management.** (2-2) Credit, 3 hours. The selection and registration of animals; breeding, feeding, testing and general care of dairy cows; management of commercial herds.
3425 (125) Animal Nutrition. (3-2) Credit, 4 hours. The classification and composition of feedstuffs; anatomy and physiology of digestion and metabolism; function of vitamins, minerals, hormones, and antibiotics; evaluation of feeds and factors affecting feeding value. The laboratory includes the application of the basic principles of nutrition to formulating rations for economical livestock production.

Prerequisite: Junior standing in Agriculture, Chemistry 1410, 1420, Mathematics 1310.

3454 (154) Soil and Water Conservation. (2-4) Credit, 4 hours. Principles of agronomic and engineering practices as applied to soil and water conservation, including elementary surveying, runoff, terrace and terrace outlet design and construction; proper cultural and tillage practices and related topics.

4114 (214) Seminar in Animal Science. (1-0) Credit, 1 hour. Important current developments in animal science and related topics. Review of current literature and presentation of papers on selected topics.

4115 (215) Seminar in Plant Sciences. (1-0) Credit, 1 hours. Important current development in plant science and related topics. Review of current literature and presentation of papers on selected topics.

4313 (213) Crop Improvement and Seed Production. (2-2) Credit, 3 hours. A study of practical methods of crop improvement, seed production, curing, storing, cleaning, packing and distributing, and of seed certification. Visits are made to seed agencies and to well equipped seed farms.

Prerequisite: Biology 3350 and senior standing in Agriculture.

4321 (221) Advanced Range Management. (2-3) Credit, 3 hours. Consideration is given to more advanced problems in range management such as range and ranch economics, maintenance and improvement of the range through reseeding, brush control, and proper stocking.

4361 (261) Rural Electrification. (2-2) Credit, 3 hours. This course includes the fundamentals of electric current generators and transmission, farm applications, electric heating, lighting and power, wiring motors, powers rates, meter reading, safety rules and regulation.

4426 (233) Classification and Management of Range Soils. (3-2) Credit, 4 hours. Classification and management of range soils in Texas. Consideration will be given to the physical relationships of soil moisture, temperature, penetrability, and aeration to plant growth. Consideration will be given to range condition classes, range sites, land classes, and problem areas as they affect management.

5313 (313) Advanced Problems in Farm Crop Production. (3-0) Credit, 3 hours. Intensive study of the latest research in the production and harvesting of crops. Also, there shall be a comparative study of the characteristics of the most recently recommended varieties of the chief farm crops grown in the state of Texas.
5345 (345) Advances in Animal Husbandry. (3-0) Credit, 3 hours. A comprehensive review of recent advances in research relating to the various phases of animal husbandry.

*5370 (370) Problems in Technical Agriculture. Credit, 3 to 6 hours. This course will be conducted by conferences between the student and instructor concerned. Problems will be selected as nearly as possible to meet the needs of the individual student.

5373 (373) Advanced Farm Mechanics. (1-4) Credit, 3 hours. This course deals with the advanced problems in farm mechanics such as selection of tools and supplies, farm equipment and buildings, farm machinery, repairs, and welding.

COURSES IN AGRICULTURAL EDUCATION

3205 (105) Introduction to Agricultural Education. (2-0) Credit, 2 hours. This course is designed to acquaint the student with the history, development, aims, and objectives of agricultural education. The methods and techniques of vocational guidance and their application are emphasized.

4202 (202) Supervised Farming Program. (2-0) Credit, 2 hours. This course includes a study of the aims, purposes, selection, and plans for a long-time supervised farming program. Emphasis is placed on the methods in keeping records and evaluating farming programs.

4212 (212) Program Planning. (2-0) Credit, 2 hours. This course includes the methods and techniques in making farm surveys, summer plans of work, plans for community service, plans for the organization and use of advisory councils, and long-time programs and annual teaching plans based on the needs of high school students, young farmers, and adult farmers in observation centers.

4311 (211) Special Teaching Aids and Resources. (3-0) Credit, 3 hours. This is a study of vocational agricultural equipment, shops, supplies, filing systems, and classroom facilities; of teaching materials and resources available to vocational agriculture teachers; of services and information available from the National F.F.A. Foundation, other agencies, institutions, business establishments, cooperatives and experiment stations; and of ways to use the press and radio as teaching aids. Emphasis is on the methods of effective use of these resources.

4347 (247) Workshop in Teaching Conservation of the Natural and Agricultural Resources. (3-0) Credit, 3 hours. A study of resources as related to farm and community life. Special emphasis will be placed on the conservation of soil, water, forest, range land, wildlife, health, and safety. Visiting consultants in the above fields will be used in this course.

4681 (291, 292) Teaching Methods and Directed Teaching. Credit, 6 hours. These two courses constitute a six hour unit in planning for and

*May be repeated once for additional credit.
teaching in approved high school departments of vocational agriculture. Prior planning and concurrent individual conferences are required. The two courses are scheduled during the first nine weeks of each semester to simulate the full itenerary of a vocational agriculture teacher.

5314 (314) Problem in Teaching Vocational Agriculture. Credit, 3 to 6 hours. The student is given the opportunity to work on problems of special interest and need in teaching high school Vocational Agriculture. If taken for three semester hours credit, this course may be repeated for additional credit.

5318 (318) Administration and Supervision of Vocational Education. (3-0) Credit, 3 hours. A study of the problems of organization, administration, and supervision of vocational education. Includes a study of the Smith-Hughes, the George-Barden, the National Defence Education, and other national and state laws that govern vocational education.

5325 (325) Methods of Organizing and Teaching Farm Mechanics. (3-0) Credit, 3 hours. This course is designed to aid teachers with farm problems such as making plans for vocational agricultural buildings, securing and arranging proper kinds of shop equipment, determining needs, making shop budgets and inventories. Special emphasis will be given to the development of instructional materials and methods of instruction.

Contestant executes turn during rodeo sponsored by college Wrangler Club.
### VIII. DIVISION OF SOCIAL SCIENCES

Professor Henderson, Director

The Division of Social Sciences offers courses (1) for students who wish to major in one of the specialized fields of economics, geography, government, history or sociology; and (2) for students who wish to major in the social sciences for the purpose of teaching.

**Bachelor of Arts Degree**

(128 semester hours)

Major in one of the social sciences

**Notes:**

1. The student may major in economics, geography, government, history, or sociology, with 24 hours in the major of which 12 hours are advanced. The minor may be taken in the social sciences or in any other subject.
2. A social science major must take at least one course in each of the social sciences other than his major.
3. A social science minor shall consist of 18 hours unless the student is taking a teaching certificate in which case it is 24 hours.
4. A certificate is available with this program, but it requires an outside teaching field of 24 hours and the required education courses. See the Director of this Division.

**Freshman Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>History 1310, 1320</td>
<td>6</td>
</tr>
<tr>
<td>English 1310, 1320</td>
<td>6</td>
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<tr>
<td>Science</td>
<td>8</td>
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<tr>
<td>Foreign Language</td>
<td>7-8</td>
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<tr>
<td>Mathematics 1310</td>
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<tr>
<td>Speech 1310</td>
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<tr>
<td>Physical Education</td>
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**Sophomore Year**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Major field</td>
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<tr>
<td>Government 2310, 2320</td>
<td>6</td>
</tr>
<tr>
<td>English (literature)</td>
<td>6</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>6</td>
</tr>
<tr>
<td>Science</td>
<td>8</td>
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<td>Physical Education</td>
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Total Hours: 35-36

**Junior Year**

<table>
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<tbody>
<tr>
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</tr>
<tr>
<td>Minor</td>
<td>6-12</td>
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<tr>
<td>Humanities 3201 (or Bible), 3213</td>
<td>4</td>
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<tr>
<td>Electives</td>
<td>5-9</td>
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</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
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<tr>
<td>Minor</td>
<td>6-12</td>
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<tr>
<td>Electives</td>
<td>7-15</td>
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Total Hours: 28

Total Hours: 30

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BACHELOR OF SCIENCE IN EDUCATION DEGREE

(128 hours; includes certificate)

Notes:
1. Thirty hours in history are required.
2. A second teaching field outside the social sciences must be completed.
3. Fourteen hours minimum are required in two of the following: science, mathematics, foreign language.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Hours</th>
<th>Sophomore Year</th>
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<tbody>
<tr>
<td>History 1310, 1320</td>
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<td>History 2310, 2320</td>
<td>6</td>
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<tr>
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<td>English 1310, 1320</td>
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<td>English (literature)</td>
<td>6</td>
</tr>
<tr>
<td>Science, Mathematics, or Foreign Language</td>
<td>6-8</td>
<td>Science, Mathematics, or Foreign Language</td>
<td>6-8</td>
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<td>Speech 1310</td>
<td>3</td>
<td>Government 2310, 2320</td>
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<td>Physical Education</td>
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<th>Senior Year</th>
<th>Hours</th>
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<tbody>
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<td>History, advanced</td>
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<tr>
<td>Second field</td>
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<td>Second field</td>
<td>6</td>
</tr>
<tr>
<td>Education</td>
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<td>Education, including 4681</td>
<td>12</td>
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<tr>
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<td>Electives</td>
<td>3</td>
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<tr>
<td>Sociology</td>
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<td>Humanities 3201</td>
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<td>30</td>
</tr>
<tr>
<td>(or Bible), 3213</td>
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</tr>
<tr>
<td>Electives</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>34</td>
</tr>
</tbody>
</table>

BACHELOR OF SCIENCE IN EDUCATION DEGREE

(128 hours; includes certificate)

Notes:
1. The social science teaching field is 48 hours minimum.
2. No other teaching field is required.
3. Certification is in the social science field only.
4. Fourteen hours minimum are required in two of the following: science, mathematics, foreign language.
A student with a major in history or with a teaching field in either history or the social sciences is required to complete History 2310, 2320 and History 1310, 1320 and to complete the required advanced courses in history divided equally between Group A and Group B.

Group A: 3310, 3311, 3312, 3313, 3314, 3315, 3316, 3320, 3321, 3330, 3331.

Group B: 3340, 3341, 3342, 3343, 3344, 3345, 3346, 3347, 3348, 3349, 3351, 3352, 3353.

History 1310, 1320 and Government 2310, 2320 are required under Texas law for all graduates of Texas tax-supported colleges.
HISTORY

Professors Craddock, Hahn, Pool
Associate Professor Conrad
Assistant Professors Farquhar, Fitzpatrick, Hayes,
Kissler, Swinney
Instructors Liddle, Malone

1310, 1320 (31, 32) History of the United States. (3-0) Credit, 3 hours each. A general survey of the history of the United States from its settlement to the present.

2310, 2320 (11, 12) History of Civilization. (3-0) Credit, 3 hours each. A general survey of civilization from earliest to contemporary times. The aims of the course are to present a balanced perspective of the origin and evolution of the social, economic, cultural, and political customs and institutions of the peoples of the world with special emphasis on Western civilization.

Advanced Non-U. S. History

3310 (111) History of Europe, 1871-1919. (3-0) Credit, 3 hours. A study of the background, the course, and the results of World War I. Emphasis is placed on imperialism, diplomatic alliances, nationalistic rivalries, and the peace settlements.

3311 (119) History of Europe Since 1919. (3-0) Credit, 3 hours. An examination of the rise of Communism, Fascism, and Nazism; the background of World War II, and the post-war problems of peace.

3312 (149) Renaissance and Reformation. (3-0) Credit, 3 hours. A study of the cultural, political, and economic changes that marked the transition from the Middle Ages in Europe to the modern period. Special attention is paid to the decline of the medieval church and the rise of the Protestant revolt.

3313 (151) Medieval Civilization. (3-0) Credit, 3 hours. A study of the development of the social, economic, cultural and political institutions of Europe in the Middle Ages. An introduction to the ancient civilizations of the Mediterranean World is included.

3314 The Age of Absolutism, the French Revolution and Napoleon. (3-0) Credit, 3 hours. A study of the political, social, and economic developments and the chief literary, philosophical, religious, and scientific currents in the great age of the French predominance from 1648 to 1815.

3315 History of England. (3-0) Credit, 3 hours. A study of the development of the English nation from pre-historic times to the end of the Tudor Dynasty in 1603.
3316 History of England. (3-0) Credit, 3 hours. A study of the English nation and the British Empire from 1603 through the Modern era.

3320 (143) Mexico and the Hispanic-American Borderlands. (3-0) Credit, 3 hours. A survey of the pre-Columbian Indian cultures, the Spanish conquest, the colonial background to the war of independence, the 19th century struggle between the federalists and the centralists, the revolution of 1910, and contemporary Mexico.

3321 (147) South America and the Caribbean Islands. (3-0) Credit, 3 hours. A study of the Spanish and Portuguese colonial empires in South America and the West Indies; the English in the Caribbean islands; the political, economic, social, and religious problems of the national period with special references to Argentina, Brazil, the Andean republics and the West Indies.

3330 (113) The Far East Since 1500. (3-0) Credit, 3 hours. A study of the social, cultural, political and economic developments in the Chinese and Japanese civilizations. Emphasis is also placed on the problems of Asia in her contacts with the West.

3331 (123) The Near and Middle East. (3-0) Credit, 3 hours. A study of the Byzantine, Saracenic, Turkish and Indian empires. Emphasis is also placed on the modern Near East since World War I.

Advanced U. S. History

3340 (112) History of the United States, 1877-1920. (3-0) Credit, 3 hours. An examination of the development of big business, the organization of labor, the problems of the farmer, urbanization, the United States as a world power, and World War I.

3341 (118) History of the United States Since 1919. (3-0) Credit, 3 hours. A survey of the history of the United States since World War I, including an appraisal of developments during the 1920's, an analysis of the New Deal, a study of the United States' participation in World War II, and post-war problems.

3342 (116) Social and Intellectual History of the United States, 1607-1865. (3-0) Credit, 3 hours. A history of American culture, with emphasis on the development of religious, political, social and philosophical ideas through the Civil War.

3343 (136) Social and Intellectual History of the United States Since 1865. (3-0) Credit, 3 hours. A study of the development of the United States after 1865, with emphasis on the social, political, economic, aesthetic and philosophical ideas that have influenced contemporary American culture.

3344 (115) Economic History of the United States. (3-0) Credit, 3 hours. Economic history of the United States from colonial times to the present.
3345 (117) The Age of Jefferson and Jackson. (3-0) Credit, 3 hours. The history of the United States during the first half of the nineteenth century.

3346 (120) The Civil War and Reconstruction. (3-0) Credit, 3 hours. The history of the United States from the Compromise of 1850 through the election of 1876.

3347 (121) History of Texas, 1820-1875. (3-0) Credit, 3 hours. This course is designed to stimulate an interest in local history, and to give an appreciation of Texas as a cultural unit.

3348 (129) Diplomatic History of the United States. (3-0) Credit, 3 hours. A survey of the diplomatic history of the United States to the present time, with special reference to the development of basic as well as contemporary policies.


3351 The Frontier in American History to 1840. (3-0) Credit, 3 hours. The colonial Mississippi Valley frontiers, including the Old Northwest, the Old Southwest, and the Louisiana Territory; the influence of the frontier on American life and institutions.

3352 The Frontier in American History Since 1840. (3-0) Credit, 3 hours. The Spanish Southwest; the Far West; the Great Plains; the Anglo-American Southwest; the Rocky Mountain Empire; the influence of the frontier on American life and institutions; and the passing of the frontier.

3353 The American Revolution and the Federalists, 1763-1801. (3-0) Credit, 3 hours. A history of the background and causes of the break with England, the American Revolution, the Confederation period, the Constitution, and the era of the Federalists.

3360 Historiography. (3-0) Credit, 3 hours. An introduction to the tools and techniques of historical research together with a survey of the writings on major areas of history.

4351 (233) Teaching the Social Sciences in the Public Schools. (3-0) Credit, 3 hours. This course is designed for prospective teachers of the social sciences in the public schools. Emphasis is placed upon an analysis of the content of the social sciences currently offered in the elementary and high schools of Texas, and the methods employed in instruction.

Required of all majors in the Social Sciences who are preparing to be teachers and who have not had public school teaching experience.

Graduate Courses

*5310 (311) Problems in Modern European History. (3-0) Credit, 3 hours. A seminar based upon selected topics in the history of Europe since 1870.

*May be repeated once for additional credit.
*5311 (319) Problems in the History of the Far, Near and Middle East. (3-0) Credit, 3 hours. A seminar based upon selected topics in the history of Japan, China, India, and the Middle and Near Eastern nations.

*5320 (343) Problems in the History of Mexico and Latin America. (3-0) Credit, 3 hours. A seminar based upon selected topics in the history of Mexico and the South American nations.

*5342 (316) Problems in the Social and Intellectual History of the United States. (3-0) Credit, 3 hours. A seminar based upon selected topics in the intellectual and social history of the United States.

*5347 (321) Problems in Texas History. (3-0) Credit, 3 hours. A seminar based upon selected topics in the history of Texas.

*5348 (315) Problems in the Diplomatic History of the United States. (3-0) Credit, 3 hours. A seminar based upon selected topics in the diplomatic history of the United States.

*5350 (323) Problems of the Frontier in American History. (3-0) Credit, 3 hours. A seminar based upon selected topics in the history of the frontier in American development.

*5351 Problems in Modern American History. (3-0) Credit, 3 hours. A seminar based upon selected topics in United States history since 1877.

*5390 Problems in Historical Research. (3-0) Credit, 3 hours. This course is open to graduate students on an individual basis at any time by arrangement with the division.

5699 (399) Thesis. Credit, 6 hours.

* May be repeated once for additional credit.
ECONOMICS

Professor Erickson
Assistant Professor Farlow
Instructor Moore

Economics 2310 and Economics 2320 constitute the basic courses and should precede, except as indicated, all other courses in economics.

2310 (67) Principles of Economics. (3-0) Credit, 3 hours. An analysis of the institutional organization and functions of the American economy.

2320 (73) Economic Problems. (3-0) Credit, 3 hours. Economic problems in the modern social order, with emphasis given to problems of pricing, distribution of income, labor organizations, international economic relations, economic growth and stabilization.

3303 (103) Economic Geography. (3-0) Credit, 3 hours. See Geography 3303.

3311 (111) Money and Banking. (3-0) Credit, 3 hours. Money and credit in the modern economy; development of modern systems of money and banking; the structure of the Federal Reserve System; and survey of monetary theory.

3312 (112) Corporation Finance. (3-0) Credit, 3 hours. The financial instruments and institutions through which the modern corporation provides for its long and short term capital requirements.

3313 (113) Labor Economics. (3-0) Credit, 3 hours. Development and structure of American unions; theories of union growth; economics of collective bargaining and wage determination; and survey of labor legislation.

3321 (121) Contemporary Economic Problems. (3-0) Credit, 3 hours. An introduction to economic reasoning; an analysis of the problems of conservation of natural resources.

3322 Economic Growth and Development. (3-0) Credit, 3 hours. An introduction to the theory and history of economic growth with special reference to the problem areas which are presently underdeveloped.

3327 (127) Public Finance. (3-0) Credit, 3 hours. A study of the growth of public expenditures, revenues, and debts of the United States; theories of taxation and tax incidence; and the effects of public expenditures and taxes on economic growth.

3329 (129) Business Cycles. (3-0) Credit, 3 hours. Fluctuations of economic activity and their effects in modern industrial societies; and survey of business cycle theories and programs for economic stabilization.
3333 (133) Business Statistics. (3-0) Credit, 3 hours. See Business Administration 3333.

3334 Business Enterprise and Public Policy. (3-0) Credit, 3 hours. A survey of the development and structure of contemporary American industry and of government regulation of business.

3335 Managerial Economics. (3-0) Credit, 3 hours. The application of economic analysis to the formulation of business policies, including demand analysis, cost analysis, and pricing policies.

3343 (143) Marketing. (3-0) Credit, 3 hours. See Business Administration 3343.

3344 (115) Economic History of the United States. (3-0) Credit, 3 hours. See History 3344.

GEOGRAPHY

Associate Professor Sterry

Instructor Boehm

1310 (13) World Geography. (3-0) Credit, 3 hours. A course stressing the similarities and differences of the major world regions. This is the beginning course in geography.

1311 Physical Geography. (3-0) Credit, 3 hours. The study and unification of a number of earth sciences which give us a general insight into the nature of man's environment.

3303 (103) Economic Geography. (3-0) Credit, 3 hours. An analysis of world distribution of fundamental occupations and commodities.

3307 (107) Geography of Europe. (3-0) Credit, 3 hours. A regional treatment of the continent with emphasis upon the cultural pattern in the various natural regions.

3308 (108) Hispanic-America. (3-0) Credit, 3 hours. A regional treatment of the continent with emphasis upon the cultural pattern in the various natural regions.

3309 (109) Anglo-America. (3-0) Credit, 3 hours. A regional study of United States and Canada. This course may be elected as a beginning course in geography.

3313 (113) Natural Resource Use and Planning. (3-0) Credit, 3 hours. A study of the problems involved in the use and conservation of our natural and agricultural resources.
GOVERNMENT 243

3324 (124) Political Geography and Geopolitics. (3-0) Credit, 3 hours. See Government 3324.

3327 (127) Geography of Asia. (3-0) Credit, 3 hours. A study of selected regions of the continent of Asia.

GOVERNMENT

Professor Henderson
Associate Professor DeShazo
Assistant Professor Farlow
Instructors Adams, Butcher

2310 (61) Principles of American Government. (3-0) Credit, 3 hours. A survey of the fundamental principles of political science, of the American system of Government, and of the origins and development of the constitutions of the United States and Texas. This course satisfies the legislative requirements for teacher certification.

2320 (62) Functions of American Government. (3-0) Credit, 3 hours. A study of functions performed in the American system of government, both national and state, with special reference to Texas.
Prerequisite: Government 2310 or equivalent.

3307 (107) Parties and Party Politics. (3-0) Credit, 3 hours. An intensive study of the American political party system, including its history and organization, suffrage, nominations and elections, campaigns, and the related areas of public opinion and pressure group activities.

3308 The Legislative Process. (3-0) Credit, 3 hours. A study of the dynamics of lawmaking and legislative politics in the United States. The structure, party organization, rules of procedure, and actual operation of the Congress and of selected state legislatures (including Texas) are analyzed, compared, and evaluated.

3315 (115) American Local Government. (3-0) Credit, 3 hours. A study of county, city, school district, and special district government and administration, with particular reference to the organization and operation of such units of local government in Texas.

3323 (123) Introduction to International Relations. (3-0) Credit, 3 hours. A general survey of the principles and problems encountered in the study and practice of international relations with emphasis being placed on the position of the United States, and the role which it plays in world affairs.
3324 (124) Political Geography and Geopolitics. (3-0) Credit, 3 hours. A study of the geographical pattern of nations and of contemporary international problems with respect to their geographical environments.

3325 (125) Comparative Governments of Europe. (3-0) Credit, 3 hours. An examination of the organization, procedures, and problems of selected European governments. Emphasis is placed upon comparisons of principles and practices among these governments, and between them and the United States government.

3327 (127) Public Finance. (3-0) Credit, 3 hours. See Economics 3327.

3330 (130) Recent Political Theory. (3-0) Credit, 3 hours. A study of the development of modern political ideas. Attention is directed particularly to the meaning and relationships of the significant ideologies of our time: Democracy, capitalism, the welfare state, socialism, fascism, and totalitarian communism.

3347 (109) American Foreign Affairs. (3-0) Credit, 3 hours. A critical study of the formulation of foreign policy and the organization and conduct of foreign relations.

3348 (129) Diplomatic History of the United States. (3-0) Credit, 3 hours. See History 3348.

3349 (133) The Constitution of the United States. (3-0) Credit, 3 hours. See History 3349.

3350 (135) Recent Constitutional Interpretations. (3-0) Credit, 3 hours. A study of the rulings of the United States Supreme Court since 1900 with particular emphasis upon federal-state relations, the power of the legislative, executive and judicial branches of the national government and civil rights and civil liberties.

5301 (301) Problems in American Foreign Relations. (3-0) Credit, 3 hours. A seminar based on selected topics in American foreign policy and U.S. involvement in internation relations.

5303 (303) Problems in United States Government. (3-0) Credit, 3 hours. A seminar based upon topics selected from the domestic sphere of United States Government.
2310 (67) Introduction to Sociology. (3-0) Credit, 3 hours. This course gives consideration to basic sociological concepts as a foundation for an understanding of collective behavior, the processes involved, and relation of human nature and culture of personality.

Sociology 2310 is prerequisite to all advanced sociology courses except 3317 and 3337.

3310 (109) Social Problems. (3-0) Credit, 3 hours. An examination of some of the major social problems in American society today. Special attention will be given to crime and delinquency, industrial relations, public education, ethnic relations, population changes, and social planning.

3311 (111) Technology and Social Change. (3-0) Credit, 3 hours. A study of the influence of technology on industry, the family, agriculture, war, medicine.

3317 (117) Social Ethics. (3-0) Credit, 3 hours. A study of some of the most important ethical theories and their application to contemporary social life.

3319 (119) Social Psychology. (3-0) Credit, 3 hours. This is the basic course in social psychology. Attention is focused upon the nature of the individual in society; the process of socialization; the human personality; personality and social adjustment; and social interaction.

3327 (127) Racial and Other Minority Groups. (3-0) Credit, 3 hours. In this course the nature and the problems inherent in racial and other minority groups are examined, with special reference to the American scene.

3333 (133) Social Control. (3-0) Credit, 3 hours. A study of the principal means of social control, including folkways, "mores", propaganda, public opinion, and education.

3337 (137) The Family. (3-0) Credit, 3 hours. This course comprises a study of the family as the primary social institution and its status in present day social structure. This course may be taken as an advanced elective without previous training in sociology.

3343 (143) Criminology. (3-0) Credit, 3 hours. In this course special consideration is given to the various theories of crime, the causes of crime, areas of crime, treatment of criminals through the courts, punishment, reform, education, probation and parole, and means of crime prevention.
3347 (147) **Juvenile Delinquency.** (3-0) Credit, 3 hours. This course is a study of delinquency in modern society, basic factors and conditions of juvenile delinquency, and the problem of delinquency control.

3353 (153) **The Community.** (3-0) Credit, 3 hours. A study of recent trends in rural life, and of urbanization as a modern social phenomenon.

**ANTHROPOLOGY**

2310 (71) **The Introduction to Anthropology.** (3-0) Credit, 3 hours. The development of various cultural groups from such viewpoints as history, philosophy, sociology, physiology, and others.

Geography professor uses map in discussing her subject.
RELIGIOUS INSTRUCTION

IX. DIVISION OF RELIGIOUS INSTRUCTION

Instructors: Norris, Thomas, Starling, and Bonfield

The College, by arrangements through its Academic Council and by approval of the Board of Regents, gives credit for courses offered in Bible by various denominational groups. The courses must be approved by the Instructional Council of the College, and the staff employed by religious groups must be given the approval of the administrative officers.

The Division of Religious Instruction has designed its courses to create:

1. A basic Biblical understanding of life to aid professional people in their work with society.

2. A basic Biblical orientation to one's total education and the inter-relationship of their courses.

3. A basic introduction to the area of Religion for all pre-theological students.

4. A basic knowledge of the Bible for those who assume a responsibility in Christian education in their Church.

A maximum of 12 hours may be applied toward the Bachelor's degree. Only six semester hours of sophomore level courses may be applied toward a degree.

All students who are contemplating church vocations are encouraged to counsel with the staff before enrolling for any course.

BIBLE

2305 (50) Introduction to the Bible. (3-0) Credit, 3 hours. A general survey of the Bible with particular emphasis placed on the origin and growth of the scriptures and the crucial events of God's action in history.

2310 (67) Survey of the Old Testament. (3-0) Credit, 3 hours. A study of the history of the Hebrew people. A particular emphasis will be placed upon the concepts of the Old Testament concerning God, man, salvation and other ideas, particularly as these prepared for the coming of Christ.

2315 (68) Survey of the New Testament. (3-0) Credit, 3 hours. A study of the New Testament, including the historical background, the life of Christ, the spread of Christianity, and the Letters of Paul.

2320 (71) The Life and Teachings of Jesus. (3-0) Credit, 3 hours. A critical analysis of the four Gospels which provide the only records for the work and words of Jesus.
2325 (72) The Life and Letters of Paul. (3-0) Credit, 3 hours. A critical analysis of Paul's letters and the Book of Acts with a special emphasis on the nature of the early Church and Paul's theological views.

2330 (80) Christian Ethics. (3-0) Credit, 3 hours. An evaluation of the Christian principles for the social order with particular emphasis on an analysis of contemporary issues, the proposed alternatives to these issues, and the role of the church in social reform.

2335 (85) Biblical Theology. (3-0) Credit, 3 hours. An interpretation of the basic concepts or great ideas found in the Old and New Testaments.

3240 (131) Seminar: The Old Testament. (2-0) Credit, 2 hours. An introduction to the major Old Testament concepts as expressed by the Patriarchs, the Prophets, the Psalmist, and the Wisdom Literature.


RELIGION

3250 (150) Philosophy of Religion. (2-0) Credit, 2 hours. An evaluation of the problems of religious knowledge, the nature of man, prayer, problems of evil and eternal life.

3355 (121) The Spread of Christianity. (3-0) Credit, 3 hours. A panoramic survey of the Development of the Christian Church from its origin to modern times with a special emphasis on the religious movement within the United States.

3360 (125) Seminar: Religions of Mankind. (3-0) Credit, 3 hours. An interpretation of the fundamental insights, concepts, ideals, and customs of the major living religions of the world.


3370 (139) The Church and Family Life. (3-0) Credit, 3 hours. An introduction to the Christian principles involved in the growth and nurture of the Christian home.
AIR SCIENCE

DEPARTMENT OF AIR SCIENCE
AIR FORCE RESERVE OFFICER TRAINING CORPS

Instruction Staff of 1963-64

Professor of Air Science
Major Howard E. Moon

Assistant Professors of Air Science
Captain Raymond R. Medford
Captain Dannie R. Hoskins

BASIC COURSE: FOUNDATIONS OF AIR POWER

Semester Descriptions (Air Science 1):

a. Air Science 1210 (11) Student designates an appropriate college course to be substituted for air science credit.

The student may choose a course in the natural sciences, mathematics, foreign languages, the humanities or social science. The course selected must be approved by the Professor of Air Science prior to registration. Course must be freshman level.


The freshman year, second semester. A general survey of aerospace power designed to provide an understanding of the elements of aerospace power; and an introduction to the mechanics of aerospace vehicles, and to the composition of, and necessity for, national security forces. Instruction includes potentials of aerospace power, air vehicles and principles of flight, the military instrument of national security, and professional opportunities in the USAF.

Semester Descriptions (Air Science 2):


A comparative study of world military forces to include free world land and naval forces, free world air forces, communist military systems, and trends in the development and employment of military power.

b. Air Science 2220 (62) Student designates an appropriate college course to be substituted for air science credit.

The student may choose a course in the natural or physical sciences, mathematics, foreign languages, the humanities or social sciences. The
course selected must be approved by the Professor of Air Science prior to registration. Course must be sophomore level.

Semester Descriptions (Air Science 3):

a. Air Science 3410 Growth and Development of Aerospace Power. (3-1) Credit, 4 hours.

A survey course about the nature of war; development of air power in the United States; mission and organization of the Defense Department; air force concepts, doctrine, and employment.

One semester hour is devoted to research of materials to help the cadet make a rapid, effective adjustment to active duty as an officer in the United States Air Force. This portion will be supervised by an air force officer.

b. Air Science 3420 Growth and Development of Aerospace Power. (3-1) Credit, 4 hours.

A survey course about the nature of astronautics and space operations, and the future development of aerospace power. Includes the United States space programs, vehicles, systems, and problems in space exploration.

One semester hour is devoted to research of materials to help the cadet make a rapid, effective adjustment to active duty as an officer in the United States Air Force. This portion will be supervised by an air force officer.

Semester Descriptions (Air Science 4):

a. Air Science 4110 (211) Introduction to International Relations (Government 3323) and Weather and Navigation. (4-1) Credit, 4 hours.

Three semester hours are devoted to a study of major factors underlying international tensions—balance of power concepts, the League of Nations, The United Nations and regional security organizations; and the rise of the super-powers—the United States and the U.S.S.R. This portion of Air Science 4110 is taught by an instructor of government. If the student desires to use this course for a major or minor in government or for a degree in social science he should consult with the Chairman of the Social Science Department to determine which course or courses are prerequisite to utilizing this course for such purposes.

One semester hour is devoted to a study of the weather and navigational aspects of airmanship, such as temperature, pressure, air masses, precipitation, weather charts, navigational charts and dead reckoning navigation. This portion of the course is taught by an air force officer.

b. Air Science 4120 (212) Military Aspects of World Political Geography (Government 3324) and the Air Force Officer. (4-1) Credit, 4 hours.
Three semester hours are devoted to a study of the concepts of the military aspects of political geography, maps and charts; factors of power; and the geographic influences upon political problems with a geopolitical analysis of the strategic areas. This portion of Air Science 4120 is taught by an instructor of government. If the student desires to use this course for a major or minor in government or for a degree in social science he should consult with the Chairman of the Social Science Department to determine which course or courses are prerequisite to utilizing this course for such purposes.

One semester hour is devoted to a study of materials to help the cadet make a rapid, effective adjustment to active duty as an officer in the United States Air Force. This portion is taught by an Air Force Officer.

SUMMER TRAINING UNIT

Members of the advanced corps are required to attend one summer training session, normally between the first and second advanced years. Such students receive mileage for the round trip from school, or home, at the rate of 5 cents per mile; are furnished food, housing, uniforms, and medical attention at government expense and are paid at the rate of $78.00 per month. Summer training begins about June 15 each year and is of four weeks duration. The military training consists of both practical and theoretical instruction.

Status of Students Who Have Had Military Training at Other Schools

Students transferring from other schools which have ROTC units are allowed college credit for air science completed at such institutions, up to the amount allowed by the institution from which the transfer is made. The eligibility for admission of such students to air science courses at Southwest Texas State College is determined by the Professor of Air Science. Also, the professor of air science may waive a part of the basic course of students who have completed the Army High School ROTC.

Selective Service Deferments

When necessary the professor of air science may grant deferment from the selective service draft to those cadets who advance in the program.
DEGREES CONFERRED
Regular Session 1962-1963
Bachelor of Science in Education ............................................. 163
Bachelor of Arts .................................................................. 25
Bachelor of Science ...................................................... 32
Bachelor of Science in Commercial Art ................................ 1
Bachelor of Science in Home Economics ................................ 18
Bachelor of Science in Industrial Arts ................................... 8
Bachelor of Science in Vocational Agriculture ....................... 16
Bachelor of Music Education ................................................. 4
Bachelor of Business Administration ....................................... 36
Master of Education .............................................................. 12
Master of Arts ................................................................. 8
Total .................................................................................. 323

Summer Session 1963
Bachelor of Science in Education ............................................. 106
Bachelor of Arts .................................................................. 23
Bachelor of Science ...................................................... 14
Bachelor of Science in Commercial Art ................................ 1
Bachelor of Science in Home Economics ................................ 7
Bachelor of Science in Industrial Arts ................................... 8
Bachelor of Science in Vocational Agriculture ....................... 9
Bachelor of Music Education ................................................. 6
Bachelor of Business Administration ....................................... 29
Master of Education .............................................................. 68
Master of Arts ................................................................. 7
Total .................................................................................. 278

STATISTICAL SUMMARY
Enrollment
Regular Session 1962-63
Freshmen (men 712, women 603) ............................................. 1315
Sophomores (men 521, women 385) ......................................... 906
Juniors (men 466, women 399) ............................................... 865
Seniors (men 416, women 278) ............................................... 694
Graduates (men 119, women 74) ............................................. 193
Post Graduates (men 64, women 28) ....................................... 92
Total College (men 2293, women 1787) ................................. 4065
Extension Students (men 92, women 267) .............................. 359
Total (Fall and Spring 1962-63) .............................................. 4424

Summer Session 1963
Freshmen (men 116, women 164) ............................................. 280
Sophomores (men 134, women 180) ......................................... 314
Juniors (men 210, women 250) ............................................... 460
Seniors (men 293, women 342) ............................................... 635
Graduates (men 263, women 176) .......................................... 439
Post Graduates (men 207, women 110) ................................... 317
Total College (men 1223, women 1222) ................................. 2445
Correspondence Students (September 1, 1962 to August 31, 1963) 153
DEGREES CONFERRED IN 1963

January 27, 1963

Bachelor of Science in Education

Allen, Jacqueline Diane
Atkinson, Beth Ann
Beken, Willyne
Bennett, Linda Perry
Benton, Jerry Lee
Bernhard, Kay Foster
Brawner, Barbara Wade
Brown, Janet Clarice
Cobb, Alton Lee
Crook, Virginia Ann
Curtis, Lonnie Ray
Dawson, Sandra Kay
Denker, George William
Doty, William Gordon
Edwards, Lloyd Lee
Gonzales, Joe
Grist, Dorothy Real
Hajdik, Bernice Elizabeth
Harrell, Frances Lynn
Harrell, Wallace Eugene, Jr.
Hilbert, James Richard
Hinton, Joe Kinney
Howle, Alfred Nelson
Hutchins, Vondal Clayborn
Kalich, David Joseph
Koch, Stephen Arthur
Kveton, Charlotte Grace

Larrison, Charles Calvin, Jr.
Loftin, Juelie Box
Lucas, Thomas Ward
McClain, E. Lee
McLaughlin, Donald Edward
Mascheek, Tommy Lynn
Miller, Richard O.
Miller, Vivian Gerard
Moore, Betty Ann
Morgan, Bettye Jane
Newlin, Judith Kathryn
Nichols, Lawrence George
Norris, Margaret Smith
Prather, Frances
Roberts, Thomas Edward
Scheer, George Halley
Smith, Richard Gary
Strickland, Rosalie Niell
Teer, Patricia Gale
Tomlin, Sara Elaine
Waites, Lynn Wilson
Walters, Kenneth Byars
Wernli, Bettye Ruth
Whitehead, Letty Lee
Wilson, Edwin Morris
Zamora, Raul

Bachelor of Arts

Bland, Mary Jean
Canion, William Brian
DeLeon, Camilo C.
Franz, William Randolph

Kercheville, Robert James
Prellop, Monroe Edgar
Smith, Alice Valentine
Villemez, Clarence Louis

Bachelor of Science

Hailey, Richard Lee
Henze, Jerome Martin
Nauert, Johonas Raymond

Pinero, James Frederick
Townsend, Clyde Jerrell
Watts, James Alfred
Bachelor of Science in Home Economics

Dismukes, Charlotte Elizabeth
Edmondson, Phyllis Jean
Geer, Marta Catharine
Hribek, Mary Ann
Inscore, Sidney Jo
Olle, Judith Florence
Rode, Jo Ella
Schwarzlose, Gloria Schneider
Shaw, Judy Sue
Uselton, Wanda LaNelle

Bachelor of Science in Industrial Arts

Bernhard, Adolph G., Jr.
Soto, Jesus Henry

Bachelor of Science in Vocational Agriculture

Moore, James Carol
Stadler, Richard Alton
Woerner, Clyde Carl

Bachelor of Music Education

Collins, Elizabeth Marie

Bachelor of Business Administration

Angerstein, Kenneth Louis
Biedermann, David Norris
Buchanan, Mac Vernon
Cordes, Cleburn
Durst, James Ray
Franke, Ronald Ree
Jenkins, Olen Russell
McCuiestion, Peg Orem
Pruett, Leo Houston, Jr.
Raske, Walter O. A.
Smith, Thomas Adrian
Stech, James Norbert
Tristan, Pete

Master of Arts

Bensmiller, Marjorie Jean
Heinemeyer, Ben William
Homes, Martha Nell
Perry, William Overton
Symm, Richard Herbert
Thonhoff, Robert Henry
Wimberley, John Andrew

Master of Education

Gensberg, Nora B.
Henderson, Robert C.
Jenschke, Eugenia Ann Crenwelge
Lundgren, Leland Louis
Maeker, Catherine
Rydell, Gene Verner
May 26, 1963

Bachelor of Science in Education

Adams, Gerald Robert
Adcox, Barbara Jean
Arredondo, Ruby Celia
Ayala, Bertha Reyes
Bagley, Peggy Botkin
Baldwin, Mary Jean Herder
Beck, Linda Lee
Benge, Patricia Kay
Benge, Sandra Russell
Blackard, Frances Anne
Bohlmann, Marie
Bolieu, Louis Sherman, Jr.
Boyd, James Thomas
Buford, Cornelia Sue
Cabra, Bonnie Lee
Canion, Penny Doughty
Chauvin, Joyce Roco
Chu, Deanna
Clark, Doris Earlene
Corker, Ross Dale, III
Cornelius, Robert James
Cox, Jerry Lee
Cox, Vernon Mills
Crowe, Janie Landry
Curtis, Jacqueline
Damon, Dorothy Jane
Davis, Charles Marion
Davis, Linda Schoenert
DeWald, Vedena Ann
Dickson, Tommy Andrew
Doyle, Carol Sue
Duffield, Jeffery Davis
Duffield, Linda Spurrier
Edwards, Dixie Thorp
Eggen, Anna Elizabeth
Fannin, Annette Elois
Galyean, Charolette
Garcia, Maria Loida
Gonzales, Frank M.
Graef, Betty Howell
Grisett, Judy
Hailey, Mary Lou
Hajovsk, Carol Ann
Hans, Michael Wayne
Harrison, Gene Alec
Hausmann, John W.

Hendrix, Bette Joyce
Higdon, John Patrick
Higgs, Jaque Reuthinger
Hill, Helen Lois
Holder, Lucie Gail
Hollyfield, Cynthia Ann
Horton, Nancy Kay
Hosea, Junios Albert
Ikels, Emmie Lee
Jernigan, Jacqueline Louise
Jett, Noel George
Kaffka, Jerry Leonard
Klaevemann, Barbara Jane
Kubica, Mary Elizabeth
Laster, Ann Blackwell
Lindsay, Margaret Doris
Loomis, Patricia Burnett
Lundgren, Karin Delaine
Lynn, Clive Alexander
McDavid, Martha Lou
McFarland, John Boyd
Magee, Nancy-Gail
Mangum, Charles Thomas
Mangum, Delbert Cullen, Jr.
Matus, Jerome Francis
Meade, Linda Louise
Meyer, Laura Catherine
Michalsky, Joyce Ann
Moore, Bonnie Barbara
Musgrave, Alvin William, Jr.
Musselman, Sylvia Irene
Nation, Alice Gay
Nerren, Frances LaRue
Palacios, Ricardo
Pate, Linda Jean
Pettig, Mary Ann
Phillip, Nancy Steve
Pixley, Sharon Lee
Pope, Lynda Joyce
Ramsay, Nena Janette
Rathkamp, Darlene Bertha
Ring, Phyllis Annette
Seerden, Linda Kay
Shanks, Gaynelle
Short, Alice Houston
Smith, Bonnie Ann
Smith, Frankie Troy
Smith, Lucina Viola
Stockton, Norma Gail
Strandtman, Velma Bohl
Stripling, Cecil Leo, Jr.
Sultemeier, Perry Glen
Svoboda, MaryAnn Sally
Thompson, Gail E.
Thompson, Margie Ruth

Smith, Lucina Viola
Stockton, Norma Gail
Strandtman, Velma Bohl
Stripling, Cecil Leo, Jr.
Sultemeier, Perry Glen
Svoboda, MaryAnn Sally
Thompson, Gail E.
Thompson, Margie Ruth

Bachelor of Arts

Barber, Clara Lanette
Beck, Amelia Idonia
Bode, Elaine Darene
Bordelon, Michael Gene
Craven, Kenneth Hayes
Forrester, Evelyn Carlene
Fritz, Vivian Annette
Garcia, Esequiel Lopez
Hall, E. Romelle

Bachelor of Science

Bennett, Jim Henderson
Bettge, George Wayne
Dorman, Kenneth R.
Graef, Clemence Richard
Henson, I. B., III
Hinojosa, Oscar
Hollenbeck, Lenox Russell, Jr.
Kay, Charles Byron
Lancaster, Jimmie Jean
Lehmborg, Richard Verne
Leidecker, Robert Augustus, Jr.
Luce, Tommy Roy
Maddox, Ancel Dillard, Jr.

Bachelor of Science in Home Economics

Armentrout, Dianna Myers
Beckett, Gloria Ann
Behrens, M. Frances
Caldwell, Fay Hinze

Bachelor of Science in Industrial Arts

Briggs, Roy Earl, Jr.
Effenberger, Donald Ewald
Matthews, Thomas Edward

Bachelor of Science in Home Economics

Armentrout, Dianna Myers
Beckett, Gloria Ann
Behrens, M. Frances
Caldwell, Fay Hinze

Bachelor of Science in Industrial Arts

Briggs, Roy Earl, Jr.
Effenberger, Donald Ewald
Matthews, Thomas Edward

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Effenberger, Donald Ewald
Matthews, Thomas Edward

Bachelor of Science in Home Economics

Armentrout, Dianna Myers
Beckett, Gloria Ann
Behrens, M. Frances
Caldwell, Fay Hinze

Bachelor of Science in Industrial Arts

Briggs, Roy Earl, Jr.
Effenberger, Donald Ewald
Matthews, Thomas Edward
Bachelor of Science in Vocational Agriculture
Abrigo, Pedro
Brechtel, Wayne Allen
Deike, Levi David
Hankamer, Lester Alvan
Immel, Alton Ray
Jobes, Harold D.
Kast, Herman Lee
Ohlenbusch, Paul Dietrich
Pfau, Larry Rynold
Reavis, Gerald D.
Robinson, Woddie R.
Seggern, Roy Edward
Stephens, Ronnie Preston

Bachelor of Music Education
Aaberg, William John
Calvert, Ella Kaye
Sone, Judith Ann

Bachelor of Business Administration
Anderson, William Cornelius
Barstis, Rebecca Lu
Blansett, Bennie B., Jr.
Broaddus, Patricia Anne
Carlow, Charles Ray
Compton, Guy Radford
Daily, Gwen A.
Harrop, Jerry Nolan
Hill, Gerald Lee
Johnson, David Duane
Jung, Joe Charles
McConnell, Fred Leon
Nance, Robert Scott
Poore, Leo Carrillo
Purcell, Edward Linton, Jr.
Rackley, Jack Price
Rhodes, Floyd Gene
Rogers, James H.
Sinclair, William Everett
Trammell, Charles Thomas
Vogt, James Robert
Webb, William Wayne
White, Bobby Melton

Bachelor of Science in Commercial Art
Erickson, Karen Ruth

Master of Arts
Hannan, Herbert H.

Master of Education
Delaplain, Gloria Gard
Fraser, Helen Jean
Haynes, Dorothy Moore
Pridgeon, S. W.
Roberts, Bobby
Sessom, Mildred
August 24, 1963

Bachelor of Science in Education

Adare, Lona May
Alexander, Coila Lucille
Anderson, Frances E. Levin
Arnold, Sybil Ann
Baker, Sarah Belle
Ball, Martha Jane
Barnes, Harold Hamilton
Barnett, Helen Carolyn
Barsalou, Linda Stringer
Batey, Grace Barth
Beck, Elaine Elizabeth
Bertrand, Brenda Joyce
Bird, Ronald Eugene
Blundell, John Clayton
Bode, Madie Mae
Bohot, Charlotte Reynolds
Boltz, Mary-Katherine
Bone, James Arthur
Bridges, Charles Harrell
Briggs, Jean
Brooks, Geraldine Knowles
Brown, Donald Frank
Buckner, Patsy Jean Scholl
Burton, Nancy Rogers
Cassidy, Maxine Fleming
Cates, Ann
Cervenka, Martha Carrollyn
Chauvin, John R.
Clendennen, Lynda Feild
Cobb, Margaret Elizabeth
Coleman, Mondel James
Collins, Lola Mae
Connally, Mabel Emily
Crenwelge, Elizabeth Ida
Daniel, Wilma Jean
Del Cueto, Ruth Esther
Derderian, Gerard
Dick, Sandra Jean
Doerr, William Louis
Dominguez, Ana Marie
Dye, Richard Paul
Dziuk, Carolyn
Erlanson, Oscar Howard, Jr.
Ewing, Jean Bunton
Farmer, Judith Ann
Fletcher, Thomas Bruce
Fossler, Louise Ann
Garrett, Alice Jane
Garza, Leonel M.
Hamilton, Elsie Pechacek
Henry, Joyce Marlene
Hyatt, Debra W.
Jewell, Rosemary Morgan
Johnson, Jennie Dannelley
Jones, Larry Richard
Kay, Hallie Carol Culpepper
Kemp, Marcy Ford
Kennedy, Patricia Ruth
Kinkler, Jane Kroeger
Kocurek, Margaret Elaine
Koym, Donnie G.
Kyle, Myrtie C.
Leary, Shannon Marie
Leur, Mary Elizabeth
Lovell, Max William
McGlothlin, Ross E., Jr.
McLaughlin, Charles Caldwell, Jr.
McLennan, Shirley Berniece
Marburger, Betty L.
Marshall, Nancy Irl
Martin, Charles Lee
Martin, Edward Charles
Mascheck, Sharon Lee
Mills, Opal S.
Mills, Ruth Joy
Naegelin, Clinton Franklin, Jr.
Nelson, Robbie Lou
Nielson, Leola Kusenberger
Oliver, Joye
Overby, Roger Allen
Page, Robert Douglas
Peyton, Frances Lema
Piskor, Zita G.
Rabon, Marion Diane
Ramsey, Louis Clyde, Jr.
Reynolds, Delores Frost
Ridgway, Judy Walker
Ross, Glenda Fae Oliver
Rudloff, Wendell Henry
Rundell, Betty Jean
SOUTHWEST TEXAS STATE COLLEGE

Sales, Frankie Henry
Schoppe, Ivo Richard, Jr.
Schrank, Melba Ruth
Shelton, Leonard Lee
Smith, Patricia Wesley
Somers, Richard
Spinn, Carolyn Irene
Stenberg, Frances Jean
Stevens, Margaret Parish

Telford, Judith Massie
Vacek, Richard A.
Wallace, James Norman
White, Bonnie Lee
Williamson, Alvin Leroy
Wilson, Cheryl Adean
Worley, Charlotte Ann
Yelderman, Gail Catherine

Bachelor of Arts

Adams, Martha Linda
Arledge, Sol Edward
Baier, Mary-Jo
Barker, Betty Ann
Diaz, Emma
Diaz, Frances Lynne
Hall, Joan Upton
Hopson, Laura Elizabeth
Kahl, Donald Hugh
McLaughlin, Olivia Pomeroy
Murphy, Betty Harper
Norwood, Viola Mae
Nicola, Joe, Jr.
Nicola, Robert James
Riojas, Emily H.
Rodriguez, Mary Refugia
Shoemaker, Elwyn Darlene
Stoops, Lowell Raye
Underwood, Linda Selk
Wells, Rita Gay
Williams, Doris Ann
Wiley, James William

Bachelor of Science

Bates, William Arthur
Baumgarten, Robert Harris
Broden, Alfred Lee
Burgess, Floyd Ken
Edmondson, Morris Stephen
Farmer, Charles Henry
Gelbhar, Johnny Richard
McBride, Glenn Wayne
McConchie, Kenneth Leslie
Moorman, John M.
Packwood, Gerald Wayne
Peiser, Royce Henry
Reichert, William George
Vickers, Clifton Thomas
Whitley, Jerry Lee

Bachelor of Science in Home Economics

Gentry, Margaret M.
Hetherly, Judith Ann
Hugland, Patricia Lou
McCoy, Janice Rowell

Parks, Nancy Heyland
Tanner, Elizabeth Gopffarth
Van Delden, Barbara Sonja

Bachelor of Science in Industrial Arts

Bohot, Wallace Paul Rudolph
Dye, James Miles
Eiserloh, Barney Kerns, Jr.
Jones, Warren Hughes

Perry, Vergel George, Jr.
Ricker, Natt Rollin
Sepulveda, Saul Rene
Sherry, Douglas Ray
Bachelor of Science in Vocational Agriculture

Belew, Bennie Charles  
Curry, Wayman David  
Davis, Darrel Ashley  
Edmondson, Jerry Wayne  
Faris, Harvey Lee  
Mayhew, Terry Rex  
Reardon, William Thomas  
Schumann, Charles Otto  
Wilfert, Vernon W.

Bachelor of Music Education

Chupik, Dianne Faye  
Durham, Joyce Elaine  
Godfrey, Susan Wadsworth  
Murillo, Armando Cerda  
Ottis, William Eugene  
Schlabach, Robert Lee

Bachelor of Business Administration

Allbright, Bruce Powers, Jr.  
Baugh, Elaine  
Crouch, James R.  
Eaton, John Parker  
Ellis, Patrick Morris  
Franki, Julius Gibbs  
Frerich, Ferdinand Leo  
Glass, Clarence Andrew, Jr.  
Hendrix, Joe David  
Hite, Delton Matthew  
Jacobs, James Kenneth  
Johnson, Curtis Roy  
Juenke, Henry William  
Kinane, Lawrence Starr  
McGinnis, Henry Peyton  
McKay, Robert R.  
Mitchell, Richard Eugene  
Moore, Royce Kirby  
Mulcahy, William Earl  
Pattillo, Jimmy Ray  
Schlammeus, Helmut Albert  
Shaw, Jerry B.  
Small, Robert Earl  
Stevenson, Kenneth Sanders  
Sunday, Michael Bruce  
Trice, B. D.  
Wallen, Paul K.  
Yax, Richard Melvin  
Zuehlke, Molly Sue

Bachelor of Science in Commercial Art

Brundrett, Sharon Teresa

Master of Arts

Doerr, John Henry  
Franke, Preston Houston, Jr.  
Heitkamp, Norman Denis  
Seidensticker, Irene Fay  
Skeen, Douglas S.  
Windham, Billy Lee  
Zesch, Joan Naomi

Master of Education

Abel, Mildred Joyce  
Ahrens, Kenton Striegler
SOUTHWEST TEXAS STATE COLLEGE

Allen, Frank Richard
Armentrout, William H., Jr.
Baetge, Frederick Roland
Baker, Bertha Lee
Bego, Ralph Wayne, Jr.
Bode, James Adolph
Boeker, Rufus Winston
Bohuslav, Gilbert Raymond
Buckner, Helen Jones
Butler, Frances Allene
Clark, Ernest Lester
Clifton, Delmar James
Clifton, Maryette Morgan
Coalson, Joy Ann
Cobb, Andy D.
Collinsworth, Leo Ragan
Conrad, Mary Angela
Damian, Josefina
DuBose, Emmett H.
Eklund, Fred Allen
Elliott, Hurvey Charles
Forester, Don Pat
Foster, Edna Evangeline
Gardner, Henry Linn
Gerick, Annette Ann
Greer, Clyde H.
Gonzalez, Hugh Lambert
Ham, Ann Bailey
Harrell, Ellen Mary
Hawkins, Bruce W.
Hayes, Dana Gibson
Hefner, Olga Mae
Henry, Bernard Gail
Holt, Joyce F.
Hyatt, Grace Howard
Jackson, Florine Lacy
Janeczek, John Kemp
Jaster, Delvin Franklin
Krejci, Victor Louis
Lankford, Eddy Earl
Lawrence, Roger Edward
Ledbetter, Jerry Dean
Linebarger, Nell Ferrell
Linton, Nathan "D"
Lowman, Helen Rogers
McCain, Robert Kyle
Mays, Carl Cecil, Jr.
Miller, Richard H., Jr.
Miller, Richard Samuel
Patton, Robert Edward
Pittman, Lillian Nellene
Polzin, Mary B.
Saunders, Jo Ann
Schwarz, James Robert
Scott, Jimmie Wayne
Scott, Thomas DeWayne
Segler, Harold Ray
Spannagel, Billy Wayne
Taylor, Melvin F.
Turner, Charles A., Jr.
Walston, Elizabeth Henderson
Warburton, Bruce L.
Wicker, Carlin D.
Wieland, Alberta M.
Wingenter, Robert Joseph
Zipp, Thomas Gene

ALPHA CHI MEMBERSHIP

January, 1963

Graduate Membership

Allen, Jacqueline Diane
Bernhard, Kay Foster
Edmondson, Phyllis Jean
Geer, Marta Catherine
Kveton, Charlotte Grace

McCuistion, Peg O.
Nichols, Lawrence George
Smith, Richard Gary
Townsend, Clyde Jerrell
Zamora, Raul
## Graduate Membership

**May, 1963**

<table>
<thead>
<tr>
<th>Beck, Amelia Adonia Huff</th>
<th>Laster, Marjorie Ann</th>
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<tbody>
<tr>
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</table>

**August, 1963**

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## Senior Membership

**REGULAR SESSION, 1963-1964**

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Kneupper, Jane E.
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Lee, Shirley T. S.
Longley, Frances
McCain, Joyce S.
Mangum, Joan (Kendall)
Martindale, Elizabeth Gayle
Miller, Emmit Arthur
Muennink, Nona R.
Noack, Walter Edward
Pogue, Margo
Ruppel, Lucretia Elizabeth
Ryan, Calvin Franklin
Ryan, Mary Lynn
Seals, Caryl Neman
Sharp, Avery Thomas
Sharp, Patricia Ann (Tipton)
Smith, Sandra Lee
Steinfeld, Carol Marie
Timmermann, Janice Faye
Tolbert, Peggy Ann
Ursel, Ruth Mary
Vitek, Nancy Lee
Warwas, Edwin James
Watson, Brenda Pearl
Wehe, Joycelynn
Wehman, Linda Elayne
Werner, Gladys Lydia
Wieland, Barbara Ann
Wilson, Gloria Louise

Junior Membership

Ayers, Sherry Louise
Bailey, Karen Jeannene
Ballard, Ruie Dale
Bremer, Elsie Jean
Bujnoch, George Anthony
Burgum, Gaytha Joy
Chatfield, John Albert
Coleman, Ronald Max
Connally, Barbara Colleen
Coppedge, Carol Ann
Cox, Helen Ruth
Davis, Wilbon Pinkney
Dodson, Marjorie Joyce
Donley, Paula Jo
Fenlon, Patricia Claire
Foster, Frances Kay
Frazier, Jackie Mae
Gips, Marjorie Ann
Goodwyn, Ann Luellen
Haggard, Mike Lively
Harborth, Nelson Lee
Jonas, Nelson James
Jones, Jo Carroll Cranfield
Kinser, Donald F.
Klopp, John Trenton
Koska, Lillie Anna
Krause, Catherine
Kuhnen, Carolyn M.
Lane, Mary Lou
Laster, Mayne D.
Little, Clara Ann
Lowrance, Lola Vonceille (Springs)
McCarty, Garland Miley
McCarty, Katherine Helen
Mareth, William Joseph, Jr.
Marshal, Rebecca
Moody, Warren Bradley
Naiser, Carolyn L.
Nolte, Dorothy W.
Nunn, Norman Patrick
Peterson, Keith Wendel
Plagens, Linda Carolyn
Pokorney, Edward Eugene
Reynolds, Patsy Gayle
Scharnberg, Georgia Gay
Schmelzer, Sandra Jean
Simpson, Margaret Lynn (Meyer)
Stafford, Donald Freeman
Stanton, Georgia Yvonne
Tomblin, Jack (Randy)
Tomlin, Frances Ann
Wagner, Barbara Jane
Watson, Stiles Truett, Jr.
Wittenbach, Diane McLean (Brown)
Wolff, Myra Joyce
Woods, Gary Vernon
Wyrick, Kathryn Louise
Zrubek, Patricia Jane
INDEX

Absences ................................................................. 83
Academic Foundations ................................................. 92
A Cappella Choir .................................................... 74
Accreditation .......................................................... 40
Administration, Officers of .......................................... 17
Administrative Organization ......................................... 52
Admission Requirements .............................................. 78, 113
Agriculture .............................................................. 227
Air Force Reserve Officer Training Corps ......................... 7, 249
Air Science .............................................................. 249
Alpha Chi ................................................................. 68, 261
Alpha Phi Omega ........................................................ 69
Alumni (Ex-Students Association) .................................... 44
Anthropology ............................................................ 246
Apartments ..................................................................... 60
Applied Music ................................................................ 161
Arnold Air Society ..................................................... 71
Art ................................................................................. 151
Assistants ...................................................................... 18
Athletics ........................................................................ 73
Band Organization ....................................................... 74
Bible ............................................................................... 247
Biology ........................................................................... 203
Board of Regents ........................................................... 16
Buildings ........................................................................ 41
Bureau, Placement .......................................................... 46
Business Administration ............................................... 184
Calendar .......................................................................... 9
Car Registration Required .............................................. 75
Campsite ......................................................................... 72
Certificate Requirements ............................................... 88
Chairmen, Instructional .................................................. 17
Chemistry ....................................................................... 210
Chorus ............................................................................ 74
Church (See Religious Life)
Circle K .......................................................................... 69
College, The ..................................................................... 40
College Star, The ........................................................... 75
College Camp .................................................................. 72
College Plant .................................................................... 41
Combination Degrees ..................................................... 111
Commerce (See Business Administration)
Conduct: Rules and Obligations ....................................... 80
Continuance in the College .............................................. 85
Correspondence Instruction Regulations ............................ 48
Counseling Service ......................................................... 62
Course Numbers ................................................................ 82
INDEX

Credits .................................................................................................................. 79

Curricula:
  Curriculum for Elementary Teachers Leading to the Degree of
    Bachelor of Science in Education ............................................................. 95
  Curriculum for Speech and Hearing Therapists ........................................ 98
  Curriculum for Secondary School Teachers Leading to the Degree
    of Bachelor of Science in Education ....................................................... 99
  General Curriculum Leading to the Degree of Bachelor of Arts ....... 100
  General Curriculum Leading to the Degree of Bachelor of Science 101
  Curricula Leading to the Degree of Bachelor of Science in
    Home Economics .................................................................................. 101
  Curricula Leading to the Degree of Bachelor of Science in
    Industrial Arts ...................................................................................... 102
  Curricula Leading to the Degree of Bachelor of Science in
    Agriculture ........................................................................................... 103
  Curriculum for the Degree of Bachelor of Music Education ............ 105
  Curriculum Leading to the Degree of Bachelor of Business
    Administration ..................................................................................... 107
  Curriculum Leading to the Degree of Bachelor of
    Science in Commercial Art ................................................................. 108
  Requirements for Second Teaching Fields (or Minors) ..................... 109
  Pre-Professional Curricula ...................................................................... 110
  Curricula Leading to Degree of Master of Arts ................................. 117
  Curricula Leading to the Degree of Master of Education ................. 117

Dead Week ......................................................................................................... 77

Debating ........................................................................................................... 75

Degrees Conferred .......................................................................................... 252

Degree Requirements (See Curricula)
  Delta Phi Alpha ....................................................................................... 69
  Delta Psi Kappa ..................................................................................... 69
  Delta Tau Alpha ...................................................................................... 69
  Dentistry .................................................................................................... 110
  Direct Class Instruction .......................................................................... 48
  Directed Teaching ................................................................................... 119
  Direction to Students ............................................................................. 10
  Discipline (See Pledge) ........................................................................... 118
  Divisions of Instruction ........................................................................... 118
  Dormitory Life .......................................................................................... 56
  Dramatics .................................................................................................. 75
  Driving and Parking Regulations ............................................................. 75
  Economics .................................................................................................. 241
  Education ................................................................................................... 119
  Employment and Financial Aid ................................................................. 63
  Engineering ............................................................................................... 111
  English ....................................................................................................... 131
  English Proficiency ................................................................................... 83
  Enrollment ................................................................................................. 252
INDEX

Entertainment (See Assembly Programs) ................................................................. 78
Entrance Examinations ......................................................................................... 78
Entrance Requirements (See Admission Requirements) ........................................ 78
Epsilon Pi Tau ........................................................................................................ 69
Expenses .................................................................................................................. 11
Experimental Honors Program .............................................................................. 95
Ex-Students Association ......................................................................................... 44
Extension Division .................................................................................................... 47
Faculty ...................................................................................................................... 21
Faculty (Retired) ....................................................................................................... 32
Failures ...................................................................................................................... 85
Fees and Expenses ................................................................................................. 11, 161
Financial Aid ............................................................................................................ 63
Fine Arts ................................................................................................................... 151
Food Services .......................................................................................................... 61
Foreign Language ..................................................................................................... 166
Forensics ................................................................................................................... 75
French ......................................................................................................................... 169
Fundamental Principles and Policies ...................................................................... 50
General Education (Academic Foundations) ......................................................... 92
General Public Services .......................................................................................... 45
General Science ....................................................................................................... 209
Geography ............................................................................................................... 242
German ..................................................................................................................... 17
Government ............................................................................................................. 243
Government of Students ......................................................................................... 67
Grade Symbols ......................................................................................................... 82
Graduate School ....................................................................................................... 112
Graduates of 1963 ................................................................................................... 253
Graduation Requirements (See Curricula) .............................................................. 173
Health Education .................................................................................................... 173
Health Services ....................................................................................................... 62
History ....................................................................................................................... 237
History of the College ............................................................................................. 40
Home Economics ..................................................................................................... 190
Honorary Organizations ........................................................................................ 68
Honors Program ...................................................................................................... 95
Hospitalization ......................................................................................................... 62
Housing ...................................................................................................................... 54
Humanities ................................................................................................................. 93
Huntington Statue ................................................................................................... 42
Industrial Arts .......................................................................................................... 196
Infirmary .................................................................................................................... 62
Instructional Chairmen ......................................................................................... 17
Intramural Programs .............................................................................................. 73
Journalism ................................................................................................................ 138
Kappa Pi .................................................................................................................... 70
INDEX

Kappa Delta Pi ......................................................... 69
Laboratory School ................................................ 43
Late Registration .................................................. 81
Law ..................................................................... 110
Library ................................................................... 42
Living Accommodations ........................................ 54
Loans ................................................................... 65
Location of College .............................................. 40
Mathematics ......................................................... 215
Master's Degree (See Curricula) ............................... 110
Medicine .................................................................. 110
Mu Phi Epsilon ...................................................... 70
Museum .................................................................... 42
Music .................................................................... 157
Musical Organizations .......................................... 73
National Teachers Examination ............................... 84, 119
Negative Credit .................................................... 84
Nursing ................................................................... 110
Officers of Administration ....................................... 17
Orchestra .................................................................. 73
Organization, Administration ................................. 52
Orientation .................................................................. 63
Other Activities ..................................................... 73
Parking Regulations ............................................... 75
Pedagog, The .......................................................... 75
Personnel Division .................................................. 54
Personnel Services .................................................. 54
Pharmacy ............................................................... 111
Philosophy ............................................................. 83
Physical Education ................................................... 173
Physics ..................................................................... 223
Phi Mu Alpha .......................................................... 70
Pi Gamma Mu .......................................................... 70
Pi Omega Pi ............................................................. 70
Piano (See Applied Music) ....................................... 44
Placement Bureau .................................................... 46
Plant, College .......................................................... 41
Practical Arts ........................................................... 184
Principles and Policies ............................................ 50
Probation ............................................................... 85
Professional Certificates ......................................... 90
Provisional Certificates .......................................... 89
Public Services ....................................................... 44
Publications ............................................................ 75
Purpose of the College ........................................... 50
Quality Points ........................................................ 83
Recreational Facilities ............................................ 72
Regents, Board of .................................................... 16
## INDEX

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Dates</td>
<td>9</td>
</tr>
<tr>
<td>Religious Instruction</td>
<td>247</td>
</tr>
<tr>
<td>Religious Life</td>
<td>67</td>
</tr>
<tr>
<td>Repeating Courses</td>
<td>83</td>
</tr>
<tr>
<td>Residence</td>
<td>56, 80</td>
</tr>
<tr>
<td>Room and Board</td>
<td>14</td>
</tr>
<tr>
<td>ROTC</td>
<td>7, 249</td>
</tr>
<tr>
<td>Rules and Obligations Governing Conduct</td>
<td>80</td>
</tr>
<tr>
<td>Scholarships</td>
<td>64</td>
</tr>
<tr>
<td>Scholastic Honors</td>
<td>83</td>
</tr>
<tr>
<td>Scholastic Probation</td>
<td>85</td>
</tr>
<tr>
<td>Sciences</td>
<td>203</td>
</tr>
<tr>
<td>Semester's Work Load</td>
<td>81</td>
</tr>
<tr>
<td>Service Bureau</td>
<td>44</td>
</tr>
<tr>
<td>Sewell Park</td>
<td>72</td>
</tr>
<tr>
<td>Sigma Alpha Eta</td>
<td>71</td>
</tr>
<tr>
<td>Sigma Delta Pi</td>
<td>71</td>
</tr>
<tr>
<td>Sigma Tau Delta</td>
<td>71</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>234</td>
</tr>
<tr>
<td>Sociology</td>
<td>245</td>
</tr>
<tr>
<td>Spanish</td>
<td>171</td>
</tr>
<tr>
<td>Special Education</td>
<td>129</td>
</tr>
<tr>
<td>Speech</td>
<td>143</td>
</tr>
<tr>
<td>Speech (Corrective)</td>
<td>148</td>
</tr>
<tr>
<td>Standards</td>
<td>85</td>
</tr>
<tr>
<td>State Board of Teachers College Regents</td>
<td>16</td>
</tr>
<tr>
<td>Statistical Summary</td>
<td>252</td>
</tr>
<tr>
<td>Stenography (See Business Administration)</td>
<td></td>
</tr>
<tr>
<td>Student Activities and Organizations</td>
<td>66</td>
</tr>
<tr>
<td>Student Senate</td>
<td>67</td>
</tr>
<tr>
<td>Student Help (Employment)</td>
<td>63</td>
</tr>
<tr>
<td>Student Organizations</td>
<td>66</td>
</tr>
<tr>
<td>Student Personnel Services and Opportunities</td>
<td>54</td>
</tr>
<tr>
<td>Student Center</td>
<td>72</td>
</tr>
<tr>
<td>Summer Session</td>
<td>49</td>
</tr>
<tr>
<td>Term Schedule</td>
<td>6</td>
</tr>
<tr>
<td>Time Limit</td>
<td>80</td>
</tr>
<tr>
<td>Veterans</td>
<td>80</td>
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<td>Violin (See Applied Music)</td>
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<tr>
<td>Voice (See Applied Music)</td>
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A medical examination by a legally qualified physician is required of each undergraduate student entering Southwest Texas State College for the first time. The examination should be made not more than thirty days prior to the student's admission to college. It is intended to furnish information which will enable college authorities to assist students in maintaining a high degree of efficiency by proper adjustments, as early as possible, to the mental, physical, and social activities of college life. This form must be completed and returned to the Division of Student Personnel.

TO THE PHYSICIAN

The examining physician is requested to be extremely careful in making the examination and recording the facts, inasmuch as the summary of the blank will be the basis for determining the student's participation in many forms of vigorous physical activity.

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MEDICAL HISTORY

HAS APPLICANT EVER HAD

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<th>Measles</th>
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What illness of more than one week duration have you had during the last four years? Give Dates:

<p>| | |</p>
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What injuries or operations have you had? Dates:

<p>| | |</p>
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Does any effect of previous injury or illness persist at the present time?

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<table>
<thead>
<tr>
<th>Kidney Disease</th>
<th>Skin Disease</th>
<th>Hernia</th>
</tr>
</thead>
<tbody>
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<table>
<thead>
<tr>
<th>Other</th>
</tr>
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</table>

(Continued of Reverse Side)
MEDICAL EXAMINATION—Fill out in detail

N—Normal

<table>
<thead>
<tr>
<th>N—Normal</th>
<th>Neg.—Negative</th>
<th>Describe all positive findings in detail</th>
</tr>
</thead>
</table>

Height................................................................ Weight................................................................ Age ......................................................................

VISION: Without Glasses Rt. 20/..... Lt. 20/........ With Glasses Rt. 20/........... Lt. 20/...........

EYES: Lids........................................................ Conjunctivae........................................................ Pupils........................................................

EARS: Ext............................ Drums: Rt............. Lt............. Hearing: Rt................ Lt................ Fungus.............

NOSE: Sept. Deviation...................... Spur........................ Enl. Turb........................

MOUTH: Tonsils: Present........................ Out................ Enl........................ Tags........................

THROAT: Tonsils: Present........................ Out................ Enl........................ Tags........................

Pharynx: Inflamed....................... Clean........................

Thyroid: Norman.................... Enlarged................ Cervical Glands........................

HEART: .......................................................................................................................................

LUNGS: ...........................................................................................................................................

AXILLARY GLANDS: ............................................................ EPITROCHLEAR GLANDS: ............................................................

PULSE: Rate: Before Exercise............. After Exercise................... 2 min. after Exer................

BLOOD PRESSURE: Systolic....................... Diastolic...................

ABDOMEN: Scars.......................... Masses...................... Hernia................ Tenderness................

MALE GENITALIA: Varicoceles............... Test Atrophy............... Undescended Test............... Phimosis.............

SPINE: Kyphosis....................... Lordosis................... Scoliosis................

EXTREMITIES: Deformities................ Flat Feet.................. Ath. Ft. Inf..................

Varicosities..........................

Others...........................

SKIN: Norman..................... Dry................ Acne................ Fungus........... Scars........ Warts........ Moles........

HAIR: Normal........................ Dandruff................ Dry........................ Excessive................

HEMORRHOIDS ........................................................


IS APPLICANT ABLE TO PARTICIPATE IN FULL PHYSICAL EDUCATION PROGRAM AND INTRAMURAL SPORTS? YES........ NO........

IS APPLICANT ABLE TO PARTICIPATE IN R.O.T.C.? YES........ NO........

REMARKS OR RECOMMENDATIONS:....................................................................................................... 

VACCINATION CERTIFICATE:

All candidates must comply with the following requirements: A successful smallpox vaccination within three years of a candidate's admission to college.

I hereby certify that Mr. ..........................................................................................................................

Miss ..........................................................................................................................................

Address ..........................................................................................................................................

Address ..........................................................................................................................................

was successfully vaccinated for smallpox on..................................................................................

As a result of the above examination, it is my opinion that (no/the following) limitation should be placed on the physical and mental activity of the student.

Signed ........................................................................................................................ M.D.

Examining Physician
APPLICATION FOR ADMISSION

Please fill out carefully and return to Office Of The Registrar.

NAME ___________________________ ___________________________ ___________________________

HOME ADDRESS ____________________________________________________________

Street Address City State

Sex Race Birth Date Single Married

APPLICATION FOR ADMISSION TO: (Check one)

1. ......... Fall Semester 19..........................
   (Application for Admission, Transcript, and test scores (Freshmen) should be in this office before August 1st).

2. ......... Spring Semester 19..........................
   (Application for Admission, Transcript, and test scores (Freshmen) should be in this office before January 1st).

3. ......... Summer Session 1, 19..........................
   (Application for Admission, Transcript, and test scores (Freshmen) should be in this office before May 1st).

4. ......... Summer Session 11, 19..........................
   (Application for Admission, Transcript, and test scores (Freshmen) should be in this office before June 1st).

5. Is this application for summer work only: Yes No

6. What will your classification be when you register? (Circle one) Freshman, Sophomore, Junior, Senior, Graduate, Post Graduate.

COMPLETE THE APPLICABLE PORTION

Applicants direct from High School

7. Highest grade completed in high school. (circle one) 9, 10, 11, 12.

8. Did you graduate? Yes No

9. Rank in high school graduating class. (circle one) 1st, 2nd, 3rd, 4th quarter.

10. Date of graduation from high school.

   Name of high school ____________________________________________________________

   Location of high school ________________________________________________________

   City State

3. Have you taken the ACT? Yes No Date

4. Have you taken the CEEB (SAT)? Yes No Date

5. Have you made a room reservation? Yes No

6. In what field do you plan to major?

Transfer from another college or university

7. List all colleges attended.

   Name of college from to name of college from to name of college from to

   date date date

   Name of college date date date

8. Number of semester hours completed with grade of "C" or above.

9. Number semester hours attempted. (Include all hours for which a grade was earned)

   Number of semester hours attempted

   Number of semester hours attempted

   Number of semester hours attempted

10. Are you eligible to return to your previous college? Yes No

11. What is your major? __________________________________________________________

12. What is your minor? __________________________________________________________

13. Type of degree sought? ________________________________________________________

14. Teaching certificate? Yes No

"D" grades are not accepted in transfer

I certify that the above information is correct.

No acceptance will be issued until this form is filed in the Office of the Registrar