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V, 41, no. 2, May 1943

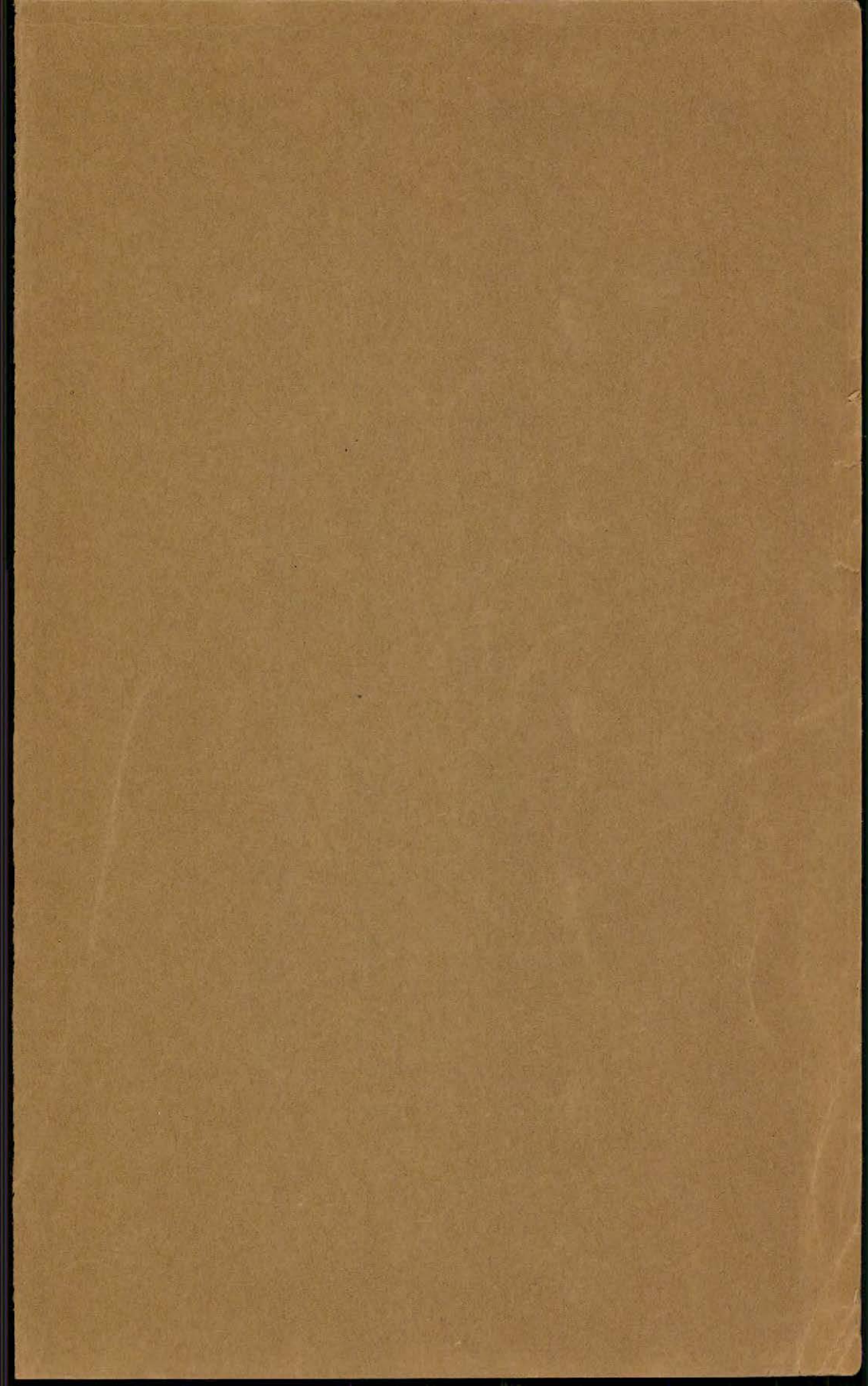
Louisiana Polytechnic Institute Bulletin



CATALOGUE

1943-44

RUSTON - - - - - LOUISIANA



LOUISIANA POLYTECHNIC INSTITUTE



CATALOGUE FOR 1943-44

VOL. XLI

MAY, 1943

NUMBER 2

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MAIN SESSION

SEPTEMBER 10, 1943

TO MAY 26, 1944

PLEASE NOTICE!

On account of the Navy V-12 program which begins July 1, 1943, the following changes are necessary:

- Page 2: College Session—July 1, 1943-June 24, 1944
Page 5: College Calendar (See below)
Page 24: Paragraph 4—Sessions of the college—Three trimesters—16 weeks each

COLLEGE CALENDAR, 1943-44

FIRST TRIMESTER

June 30	Freshman dormitories open
July 1	Freshman Orientation
July 2	Freshman Registration
July 2	All dormitories open
July 3	Registration of Upper-classmen
July 5	Classes begin
October 23	Trimester ends

SECOND TRIMESTER

October 26	Dormitories open
October 27	Registration
October 28	Classes begin
November 25	Thanksgiving
December 18, noon (Saturday) to	
December 29, 8:00 a. m. (Wednesday)	Christmas Holidays
February 28	Trimester ends

THIRD TRIMESTER

February 28	Dormitories open
February 29	Registration
March 1	Classes begin
April 7, noon (Friday) to	
April 11, 8:00 a. m. (Tuesday)	Easter vacation
June 20	Graduation
June 24	Trimester ends

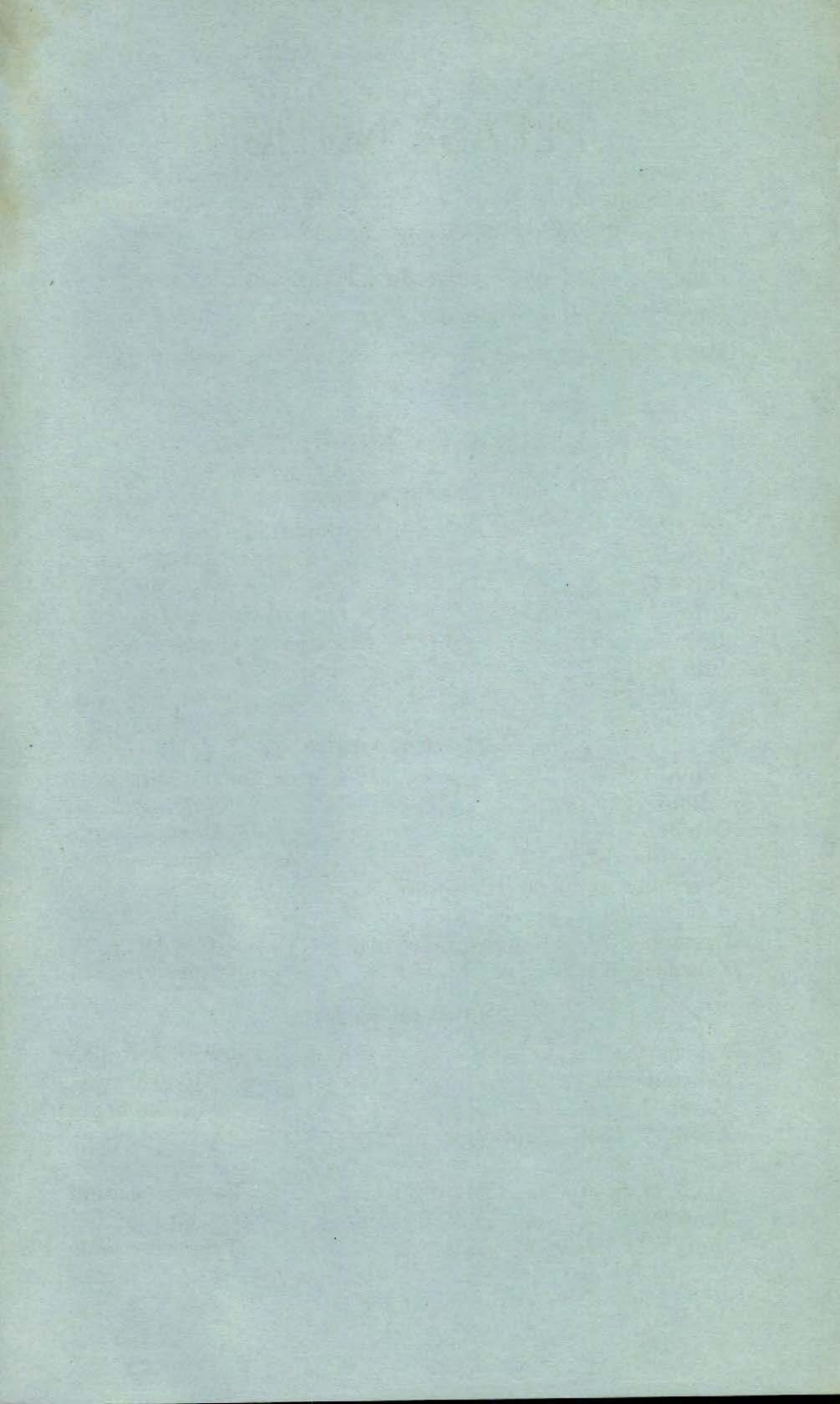


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CALENDAR

1943

1944

JANUARY							JULY							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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31														
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MARCH							SEPTEMBER							
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APRIL							OCTOBER							
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MAY							NOVEMBER							
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23	24	25	26	27	28	29	23	24	25	26	27	28	29	
30	31						30	31						
JUNE							DECEMBER							
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11	12	13	14	15	16	17	10	11	12	13	14	15	16	
18	19	20	21	22	23	24	17	18	19	20	21	22	23	
25	26	27	28	29	30		24	25	26	27	28	29	30	
							31							

COLLEGE CALENDAR, 1943-44

First Semester

September 8	Freshman dormitories open
September 9	Freshman orientation
September 10	All dormitories open
September 10	Freshman registration
September 11	Upper-classmen registration
September 23	Classes begin
November 25	Thanksgiving holiday
December 17, noon (Friday)	
to	
January 4, 1944, 8:00 a.m. (Tuesday)	Christmas holidays
January 22	End of first semester

Second Semester

January 23	Dormitories open
January 24	Registration
January 25	Classes begin
April 16, noon (Thursday)	
to	
April 21, 8:00 a.m. (Tuesday)	Easter vacation
May 23	Commencement day
May 26	End of second semester

Summer Session

May 28	Dormitories open
May 29	Registration
May 30	Classes begin
July 4	Holiday
August 17	Graduation exercises
August 18	End of summer session

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BIOLOGY:

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- Paul Kimbrell Smith, *Mathematics*—B.S., M.A., University of South Carolina; M.S., University of Chicago; Ph.D., University of Illinois.

*On leave for military service.

ASSOCIATE PROFESSORS

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- F. Elizabeth Bethea, *Art*—B. Design, H. Sophie Newcomb College; M.A., Columbia University.
- Lucille W. Campbell, *Secretarial Science*—B.S., University of Mississippi; M.A., Columbia University; Teachers Diploma, Gregg College, Chicago.
- ① J. Frank Davis, *Spanish* (Acting Associate Professor)—A.B., William Jewell College; M.A., Ph.D., University of Missouri.
- Lyle R. Dawson, *Chemistry*—B.Ed., Illinois State Normal; M.S., University of Illinois; Ph.D., University of Iowa.
- Lawrence W. Dixon, *Commerce*—B.A., Bowling Green College of Commerce; M.Ed., (Commercial) university of Pittsburgh; Tennessee Bar; Kentucky Bar.
- J. Thomas Folk, *Civil Engineering*—B.S., Clemson College.
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- Madison Hall, *English*—B.S., M.A., George Peabody College.

*On leave for military service.

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- *Howard S. Kaltenborn, *Mathematics*—B.S., Carnegie Institute; M.S., Ph.D., University of Michigan.
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- Horace Ewing Ruff, Jr., *Physics*—B.S., Hendrix College; M.S., Louisiana State University, Ph.D., Iowa State College.

*On leave for military service.

ASSOCIATE PROFESSORS (CONTINUED)

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- Henry F. Schroeder, *Mathematics*—B.A., M.S., Louisiana State University.
- Ernest M. Shirley, *Mathematics*—B.S., Louisiana State University.
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- Robert S. Wynn, *Electrical Engineering*—B.E., Tulane University.

ASSISTANT PROFESSORS

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- Francis L. Afeman, *Biology*—B.S., Southwestern Louisiana Institute; M.S., Louisiana State University.
- Newton H. Barnette, *Engineering* (Acting Assistant Professor)—B.S., Louisiana Polytechnic Institute.
- *Ben Taylor Bogard, *Mechanical Engineering*—B.S., Louisiana Polytechnic Institute; M.S., Louisiana State University.

*On leave for military service.

ASSISTANT PROFESSORS (CONTINUED)

- Paul Breitweiser, *Music*—B.M., M.M., Chicago Musical College.
- Alma Burk, *English*—B.I., Louisiana Polytechnic Institute; B.A., Louisiana State University; M.A., University of Iowa.
- Merle Burk, *Home Economics*—B.S., Louisiana Polytechnic Institute; M.A., University of Iowa.
- Woodrow W. Chew, *Chemical Engineering*—B.S., New Mexico A. and M. College; M.S., Oklahoma A. and M. College.
- Julia L. Duke, *Physical Education*—B.S., Madison College; M.A., George Peabody College.
- Willie Fletcher, *Home Economics*—B.S., Louisiana Polytechnic Institute; M.S., Iowa State College.
- *Richard Flowers, *Speech*—B.S., North Texas State Teachers College; M.A., Louisiana State University.
- Robert L. Fuller, *Commerce*—B.A., Louisiana Polytechnic Institute; LL.B., Louisiana State University.
- *Buford E. Gatewood, *Mathematics*—B.S., Louisiana Polytechnic Institute; M.S., Ph.D., University of Wisconsin.
- Clinton Gilbert Goss, *Engineering* (Acting Assistant Professor)—B.S., Louisiana Polytechnic Institute.
- *John S. Green, *Agriculture*—B.S., Louisiana State University; M.S., Texas A and M. College.
- Doris Burd Haskell, *Music*—New England Conservatory of Music; B.M., M.M., Chicago Conservatory of Music.
- Linna T. Hunt, *Music* (Acting Assistant Professor)—B.M., University School of Music (Nebraska); M.M., De Paul University.
- *T. W. Ray Johnson, *Chemistry*—B.S., Louisiana Polytechnic Institute; M.S., Louisiana State University.
- Grady E. Jones, *Mathematics*—B.I., B.S., Louisiana Polytechnic Institute; M.A., George Peabody College.

*On leave for military service.

ASSISTANT PROFESSORS (CONTINUED)

- *John M. Kavanaugh, *English*—B. A., Louisiana Polytechnic Institute; M.A., Louisiana State University.
- Stella Booles Kidd, *Music*—Cincinnati Conservatory of Music; New York School of Music; Judson College; B.S., Keatchie College.
- Marjorie C. Leigh, *Library Science*—B.S., George Peabody College; B.A.(L.S.), Emory University; M.A., George Peabody College.
- Robert W. Mondy, *History*—B.A., Louisiana Polytechnic Institute; M.A., University of Texas.
- *Robert H. Mount, *Education*—B.A., Louisiana College; M.A., Louisiana State University.
- *Dennis P. Noah, *Education*—B.A., Louisiana Polytechnic Institute; M.A., Y.M.C.A. Graduate School.
- **Louis M. O'Quinn, *Economics*—B.A., Louisiana State Normal College; M.A., University of Texas.
- Richard M. Pullig, *Biology*—B.S., Louisiana Polytechnic Institute; M.S., Louisiana State University; M.T., Gradwohl School of Laboratory Technique.
- *J. W. Rabb, *Mechanical Engineering*—B.S., Louisiana Polytechnic Institute; M.S., Virginia Polytechnic Institute.
- Edna Ralston, *Library Science*—B.A., College of the Ozarks; B.S.(L.S.), M.A., University of Illinois.
- Ruth Richardson, *Home Economics*—B.A., Louisiana State Normal College; M.S., Louisiana State University.
- ∩ Kathryn S. Riddle, *Physical Education*—B.S., M.S., University of Wisconsin.
- *Charles Hooper Smith, *Chemistry*—B.S., Louisiana Polytechnic Institute; M.S., Louisiana State University.
- James A. Smith, *Music*—B.S., Michigan State Normal College; M.M., University of Michigan.

*On leave for military service.

**On leave for advanced study.

ASSISTANT PROFESSORS (CONTINUED)

M. Louise Smith, *Art*—B.S., George Peabody College; M.A., Columbia University.

o Harold Smolinski, *Accounting*—B.A., Louisiana State Normal College; M.B.A., Louisiana State University.

*William E. Snyder, *Biology*—A.B., University of Colorado; M.S., Ph.D., University of Chicago.

Leonard B. Watt, Jr., *Journalism*—B.A., Louisiana State University.

Calvin T. Watts, *Civil Engineering*—B.S., Louisiana Polytechnic Institute.

Scott W. Weathersby, *Biology*—B.A., Louisiana College; M.S., Louisiana State University.

*Ralph S. Woodward, *Agriculture*—B.S., Clemson College.

INSTRUCTORS

o J. H. Barnwell, *Mechanical Engineering Laboratories*—B.S., Georgia School of Technology.

Avon Lee Blakely Baxter, *Music*—B.F.A., B.M. University of Oklahoma; M.M., Eastman School of Music.

o Drewsilla Beams, *Home Economics*—B.S., University of Oklahoma.

o Marie E. Brittin, *Speech* (Acting Instructor)—B.S., Northwestern University; M.A., University of Iowa.

— Katherine Butler, *Critique; Elementary Education*—B.A., Louisiana Polytechnic Institute; M.A., Columbia University.

*Cecil C. Crowley, *Physical Education*—B.S., Centenary College; M.A., Louisiana State University.

Flora May Cunningham, *Critique; Elementary Education*—B.S., M.A., George Peabody College.

o Evelyn Lee Eaddy, *Music*—B.M., Conservatory of Music (Cincinnati); M.A., Teachers College, Columbia University.

*On leave for military service.

INSTRUCTORS (CONTINUED)

- Winnie D. Smith Evans, *English*—B.A., Louisiana Polytechnic Institute; M.A., George Peabody College.
- M. Frances Fletcher, *English*—B.A., Louisiana Polytechnic Institute; M.A., University of Virginia.
- Robert A. Hassell, *Mathematics* (Acting Instructor)—B.S., Millsaps College; M.A., George Peabody College.
- Wallace Herbert, *Mathematics* (Acting Instructor)—B.S., Ouachita College; M.S., Louisiana State University.
- Maibel Gregg Howard, *Home Economics in Elementary Education*—B.S., Louisiana Polytechnic Institute; M.S., Louisiana State University.
- Mary B. Jarrell, *Critique; Elementary Education*—B.S., M.A., George Peabody College.
- Bessie Joyce, *Home Economics*—B.S., Louisiana Polytechnic Institute; M.S., Columbia University.
- Kermit Knighton, *Secretarial Science*—B.A., Louisiana Polytechnic Institute.
- Miriam Fern Larsen, *Home Economics*—B.S., Marymount College.
- Anna Lee Mitchell, *Secretarial Science* (Acting Instructor)—B.S., Louisiana Polytechnic Institute.
- Bernice O'Neal, *Critique; Elementary Education*—B.A., Louisiana Polytechnic Institute.
- Minnie Elizabeth Ratliff, *Physical Education*—B.S., Florida State College for Women.
- Leola Rodgers, *Critique; Elementary Education*—B.S., M.A., George Peabody College.
- Henrietta Sievert, *Home Economics*—B.S., Stout Institute; M.S., Louisiana State University.
- **Anna Greene Smith, *Sociology*—B.A., Cumberland University; M.A., George Peabody College.
- *John L. Stewart, *Biology*—B.S., Louisiana Polytechnic Institute.

*On leave for military service.
**On leave for advanced study.

INSTRUCTORS (CONTINUED)

Kathleen DeCou Thain, *French and Spanish*—B.A., Baylor University; M.A., University of Texas.

Barbara D. Thomas, *Physical Education for Women*—B.S., Florida State College for Women.

Cora Ethel Washburn, *Critique; Elementary Education*—B.S., George Peabody College; M.A., Columbia University.

Ora V. Watson, *Critique; Elementary Education* (Acting Instructor)—B.S., Centenary College; M.A., Columbia University.

Joseph Michael Wells, *Physical Education for Men*—B.A., Louisiana Polytechnic Institute.

George P. Wilson, *Speech* (Acting Instructor)—B.A., Guilford College; M.A., University of North Carolina.

**Mary C. Wilson, *Critique; Elementary Education*—B.A., Louisiana Polytechnic Institute; M.A., George Peabody College.

*Eddie Wojecki, *Physical Education*—B.S., Louisiana Polytechnic Institute.

*Henry B. Yarbrough, *Electrical Engineering*—B.S., Texas A. and M. College.

*On leave for military service.

**On leave for advanced study.

COUNCILS AND COMMITTEES OF THE FACULTY FOR SESSION OF 1943-44

(The President is a member, ex-officio, of all committees)

COUNCILS

THE COUNCIL OF DEANS

*(Composed of the President, the deans of the six schools,
and the Registrar)*

President Cottingham, chairman; Deans Amos W. Ford, Gustaf Freden, Helen Graham, Herbert L. Hughes, H. J. Nethken, and Raymond L. Reese; Registrar, Ruby B. Pearce.

THE FACULTY COUNCIL

*(Composed of the President, the deans, the Registrar, and
the heads of departments)*

President Cottingham, chairman; Joe Aillet, D. G. Armstrong, Elizabeth Bethea, Woodrow W. Chew, Caroline Cochran, Julia Duke, J. W. Evans, Amos W. Ford, J. R. Fowler, Gustaf Freden, Helen Graham, Kenneth F. Hewins, Carroll G. Hilman, George B. Hogg, Herbert L. Hughes, L. V. E. Irvine, A. McFarland, R. A. McFarland, G. W. McGinty, W. L. Mitchell, P. D. Neilson, Harley J. Nethken, Ruby B. Pearce, Raymond L. Reese, Sallie Robison, E. J. Scheerer, P. K. Smith, Robert L. Vining.

COMMITTEES

ATHLETICS: A. W. Ford, chairman; Joe Aillet, R. A. McFarland, H. J. Sachs, H. F. Schroeder, R. S. Wynn.

CAMPUS BEAUTIFICATION: Elizabeth Bethea, chairman; Sam Linden, Mary Moffett, J. S. Tarbutton, Helen Woodard.

CATALOGS AND COLLEGE BULLETINS:

EDITING: H. L. Hughes, chairman; Gustaf Freden, Helen Graham.

PRINTING: K. F. Hewins, chairman; H. R. Mays, Sr., L. B. Watt, Jr.

COMMENCEMENT: H. L. Hughes, chairman; F. L. Afeman, Merle Burk, Lucille Campbell, L. R. Dawson, Helen Graham, T. A. Green, L. V. E. Irvine, Mary Moffett, Sallie Robison, E. M. Shirley, Eugenia Smith.

DISCIPLINE: E. S. Jenkins, chairman; Caroline Cochran, Helen Graham, G. W. McGinty, W. L. Mitchell.

FACULTY ADVISER TO STUDENT SENATE: H. J. Sachs.

FACULTY COUNCIL PROGRAMS: Helen Graham, chairman; A. W. Ford, A. McFarland, H. J. Nethken, Ruby B. Pearce.

LIBRARY: Gustaf Freden, chairman; Helen Graham, H. L. Hughes, George E. Pankey, E. J. Scheerer, P. K. Smith.

COUNCILS AND COMMITTEES OF THE FACULTY

(CONTINUED)

PROGRAMS: H. L. Hughes, chairman; Elizabeth Bethea, L. V. E. Irvine, A. McFarland, Vera Paul, H. E. Ruff, H. J. Sachs.

REGISTRATION: Ruby B. Pearce, chairman; Caroline Cochran, J. W. Evans, Gustaf Freden, Helen Graham, H. L. Hughes, Mabel May, W. L. Mitchell, Sallie Robison.

STUDENT ADARDS: W. L. Mitchell, chairman, L. W. Dixon, Mabel May.

STUDENT EMPLOYMENT:

SCHOOL JOBS: J. T. Folk, chairman; Fairy C. McBride, A. McFarland.

NYA ASSISTANCE: J. T. Folk, chairman; Anna Idtse, E. M. Shirley.

STUDENT ORGANIZATIONS: G. W. McGinty, chairman; Caroline Cochran, Julia Duke, W. L. Mitchell, Mary Moffett, Sallie Robison, H. E. Ruff, L. B. Watt, Jr.

STUDENT PLACEMENT: D. G. Armstrong, chairman; J. T. Folk, Gustaf Freden, Helen Graham, H. L. Hughes, L. M. Phillips, R. L. Reese, Sallie Robison, Helen Woodard.

STUDENT PUBLICATIONS: K. F. Hewins, chairman; J. R. Fowler, G. C. Hilman, R. A. McFarland, Henry R. Mays, P. D. Neilson, L. B. Watt, Jr.

VISUAL EDUCATION: D. G. Armstrong, chairman; J. W. Evans, H. J. Nethken.

WELFARE OF DRIVE-IN STUDENTS: D. G. Armstrong, chairman; G. E. Jones, L. P. McLane, Floy E. VanHook, Helen Woodard.

Part II—General Information

LOCATION

Louisiana Polytechnic Institute is a coeducational state college, founded in 1894. It is located in the city of Ruston, which has a population of about 8000 and is situated in the central part of northern Louisiana. Ruston is served by two railways and by two paved U. S. highways as well as several state highways.

BUILDINGS AND GROUNDS

The grounds of Louisiana Polytechnic Institute comprise a campus of fifty acres within the city of Ruston; a tract of twenty-five acres adjacent to the campus; and the demonstration farm of the School of Agriculture consisting of 352 acres and situated just outside the city limits, about a mile from the campus. The value of the college plant is estimated at approximately three and a half million dollars.

The college buildings (including the smaller ones) number a total of thirty-three. About half of these have been built recently, and some of the rest have been recently reconditioned. The buildings are the following:

Keeny Hall (the administration building); Howard Auditorium Building (containing also the Little Theater); Prescott Memorial Library; Bogard Hall (the engineering building); Lomax Hall (the education building); Chemistry Building; Home Economics Building; Home Economics Demonstration House; Agriculture Laboratory; Teacher Training and Elementary School Building.

Dining Hall; Men's Gymnasium; Women's Gymnasium; Harper Hall (the old dormitory for women); Aswell Hall (the new dormitory for women); Robinson Hall (the new dormitory for men); Agriculture Dormitory (for men); Freshman Hall (for men); Sophomore Hall (for men); Football Stadium.

President's Residence; Residence of Dean, School of Agriculture; Student Center Building (including the cafeteria); Student Religious Center House.

House of Nursery School; Greenhouse; Power Plant; Shop Building; Stock Judging Barn; Stock Barns (two in number); Dairy Barn; Potato Curing Plant.

In addition to these buildings, there are situated on the campus a baseball park, a practice football field, a hockey field, six concrete, lighted tennis courts, and ample space for the various other college sports and games.

ORGANIZATION

Louisiana Polytechnic Institute is organized into six schools: the School of Agriculture, the School of Arts and Sciences, the School of Business Administration and Economics, the School of Education, the School of Engineering, and the School of Home Economics.

RATING

Louisiana Polytechnic Institute is an approved four-year college. It is a member of the Association of American Colleges, the Association of Colleges and Secondary Schools of the Southern States, and the American Association of Collegiate Registrars.

SESSIONS OF THE COLLEGE

Louisiana Polytechnic Institute has two sessions each year: the *main session* of nine months (in two semesters) beginning in September and ending in May; and the *summer session* of nine weeks,* which begins soon after the close of the regular session and ends early in August.**

DEGREES

Louisiana Polytechnic Institute confers three degrees: bachelor of arts, bachelor of science, and bachelor of music. Candidates who have specialized in a vocational or semi-professional subject are awarded a degree in that subject; for example, bachelor of science in engineering, bachelor of science in chemistry, etc. No honorary degrees are conferred. For further information, see under each School.

COURSES OF INSTRUCTION

Courses in the following subjects are offered by the college: agriculture (given in the School of Agriculture); art, biology, chemistry, English, French, history, journalism, mathematics, music, physical education, physics, political science, sociology, Spanish, speech, (given in the School of

*Twelve weeks during wartime.

**Later in wartime.

Arts and Sciences); commerce and economics (given in the School of Business Administration and Economics); education, geography, library science, psychology (given in the School of Education); engineering (given in the School of Engineering); home economics (given in the School of Home Economics). For further details, see under each School.

ADMISSION REQUIREMENTS

HIGH SCHOOL REQUIREMENTS

An applicant for admission to the freshman class must have been graduated with not fewer than fifteen acceptable units from a four-year course in an accredited secondary school or must attest an equivalent preparation. The applicant should send to the office of the Registrar, not later than September 1, the completed application blank found in the catalogue, and a transcript of his high school credits.

A period termed "Freshman Week" is set aside at the beginning of the year for the purpose of acquainting freshmen with the college and getting them registered properly. All freshmen must attend the meetings during this period.

For *unconditional entrance* to any of the curricula, the applicant for admission must present as a part of his high school credit the specific units indicated for admission to his curriculum. For further details, see under each School.

SPECIAL STUDENTS

Applicants for admission who have not had the advantage of a secondary education but who are of mature age (at least twenty-one years) will be admitted as special students and will be allowed to pursue courses which they are able to take. No special student may qualify as a candidate for a degree until he has satisfied the entrance requirements of the curriculum in which he is registered.

TRANSFER STUDENTS

A student transferring from another college must present a transcript of the work done there and a certificate of honorable dismissal. In the absence of such credentials the student may register conditionally until such credentials can be obtained. If not obtained within a reasonable time, the registration will be cancelled. A student dismissed from another institution because of academic or disciplinary diffi-

culties will not be admitted to Louisiana Polytechnic Institute until reinstated at the institution previously attended.

A student who presents a transcript of credit from another college will be permitted to register for such courses as he seems to be prepared to take. He will be given provisional credit and class standing on the basis of the transcript which has been presented. When he has been in residence *one* year, his final credit and class standing will be determined by the quality of work he has done in this institution.

REGISTRATION

Students are required to register on days announced for registration in the college calendar.

The privilege of registering is withheld from all students who have not registered on the sixth working day after the last regular registration day of each semester. A late registration fee of \$1.00 is charged for registration after classes have begun.

For the duration of the war, every student is required to take Physical Education five hours a week.

In registering students the heads of departments act as advisers and try to avoid errors; but the student himself is expected to know that graduation is attained through the completion of curriculum requirements as set down in the catalogue. He should know his curriculum and register according to its requirements.

Students who intend to take the degree of master of arts or master of science in a graduate school are advised to acquire a reading knowledge of French inasmuch as many graduate schools require this.

COURSE NUMBERS

Freshman courses are numbered in the 400 series; sophomore courses in the 500 series; and junior-senior courses in the 600 series.

When there is a specific junior prerequisite for senior courses, such senior courses are numbered in the 700 series.

A "continuation" course is two or three courses that form a sequence through successive semesters. Such courses

grant only provisional credit until the sequence of the "continuation" course is completed.

Most courses meet three times a week for a semester of 18 weeks, and such courses assume a preparation of two hours of work for each hour of meeting. Most courses carry a credit of three semester hours. Certain courses in the sciences and in other subjects require more or less work than the amount named above and accordingly carry more or less credit. The credit for each course is indicated with the description of the course, as follows: three hours credit; two hours credit, the word "hour" meaning one semester hour.

CLASSIFICATION OF STUDENTS

FRESHMAN. A student who has fewer hours than are required for sophomore standing in his curriculum.

SOPHOMORE. A student whose total credit is not less than the freshman requirement of the curriculum in which he is registered, and who has quality points equivalent to or above the number of hours earned. The major portion of his credits must be in specific freshman requirements.

JUNIOR. A student who has completed the specific freshman and sophomore requirements of his curriculum, and who has quality points equivalent to or above the total number of hours he has earned.

SENIOR. A student who lacks that number of semester hours normally required during the last two semesters of his curriculum, and who has quality points equivalent to or above the total number of semester hours he has earned.

When a student changes from one school or curriculum to another, his class standing will be determined by the application of his credits to the school or curriculum to which he has changed.

STUDENT LOAD

No student may be registered for fewer than 12 hours except in the case of a last semester senior, who may be allowed to carry only the courses required for graduation, and certain other cases approved by the dean of the school in which he is registered.

The *normal load* for a student per semester is that amount required in his classification in the curriculum in

which he is registered. However, in exceptional cases only, a student who has maintained a general average of *B* and who has no grade below *C* for the preceding semester may add three hours more than the total required in the current semester of his curriculum, provided his total registration does not exceed 21 hours. In case a student is taking practice teaching, his maximum load may not exceed 18 hours per semester. No candidate for a degree will be considered for general or departmental honors who has been registered for fewer than 15 hours.

Drive-in students and those engaged in part-time employment should generally not schedule more than 15 semester hours.

ADDING AND DROPPING COURSES

After the first registration for a semester a student may add a course only with the approval of the head of his department. No course may be added after the sixth working day of the semester.

Under exceptional circumstances a student may drop a course with the consent of the head of his department, the dean of his school, and the Registrar, provided he does not reduce his schedule below the minimum of twelve semester hours.

A student who drops a course after the first six weeks of any semester will receive the grade of *F* in that course.

CHANGING SCHOOLS OR CURRICULA

If a student wishes to change from one curriculum to another, he must have the consent of his major professor and the dean of the school in which he is registered.

If a student wishes to change from one school to another, he must have the consent of the deans of both schools. He must secure from the Registrar an official petition; his change will not be completed until this petition has been properly signed and returned to the Registrar's office.

GRADUATION REQUIREMENTS

The candidate for a degree is required to complete one of the curricula listed under one of the several Schools.

In case the college changes the curriculum after a student enters college, he is permitted to graduate upon com-

pletion of the requirements of his curriculum at the time he entered provided he is a candidate for a degree within eight years. If more than eight years have elapsed from the time of his entrance to the time of his reentrance, he will be allowed the semester hours credit he has earned but he must complete the requirements of his curriculum as given in the catalogue at the time of his reentrance.

Every candidate for a degree must spend his senior year in residence. A student who enters with advanced standing from another college must fulfill a minimum residence requirement of 36 weeks—two semesters or four summer sessions—and must earn at least thirty semester hours credit and an equal number of quality points.

Not more than one-fourth of the total amount of credit required for a degree may be earned through correspondence or off-campus extension. Thirty of the last 36 hours presented for a degree must be earned in residence at the Louisiana Polytechnic Institute.

Prospective teachers must complete the nine semester hours in Health and Physical Education required by the state. The four semester hours of Physical Education required of all students may be arranged to count as four hours of the nine required of teachers.

Every junior who expects to become a candidate for a degree the following session must report that fact to the Registrar during the second semester of his junior year. At the beginning of his senior year each candidate is given a statement of the work to be completed before graduation.

All requirements of the courses of study as outlined in the college announcement or its equivalent must be certified by the Registrar before degrees will be conferred.

No student will be recommended for graduation who has a failure in a required course.

EXPENSES

DORMITORIES FOR MEN

There are three dormitories for men: Freshman Hall, for all students who have completed less than 30 semester hours; Sophomore Hall, for students who have completed more than 30 and less than 60 semester hours; and Robinson

Hall, for all students who have completed over 60 semester hours.

All students wishing to make reservations must give their classification so as not to cause confusion and possibly lose their room reservation.

Room, board, laundry, and infirmary fee in the three dormitories are \$26.75 per board period.

DORMITORIES FOR WOMEN

There are two dormitories for women, Harper Hall and Aswell Hall. Harper Hall, the old dormitory, provides accommodations for 245 students. One section and two wards on the third floor are reserved for freshmen. Sophomores and juniors occupy the main building. Seniors are given preference for rooms in Aswell Hall, the new dormitory. Juniors are accepted in order of application for the remaining rooms. The rate for board, room, laundry, and infirmary fee for both dormitories is \$26.75 per board period. Board, room, laundry, and infirmary fee for freshmen living in the ward is \$24.75 per board period.

FEEES

The *registration fee* of \$10.00, payable by all students each semester upon entrance. Each student who registers for the first semester is required to pay a subscription of \$4.00 entitling him to a copy of the college annual, *The Lagniappe*, issued during the second semester. Only one member in each family is required to pay for the college annual. The \$4.00 includes the cost of making the student's picture for the annual.

The *graduation fee* of \$10.00, payable by all students at the beginning of their last semester, includes the diploma fee, life member ship in the Alumni Association, and a two-year subscription to *The Tech Talk*.

None of the above fees is refunded after the registration is complete.

A late registration fee of \$1.00 will be charged for registration at any time after the close of the registration period.

For the laboratory courses in chemistry a *breakage fee* of \$5.00 is deposited. The unused portion of this is refunded, not later than June 30, 1944.

BOARD AND ROOM

The cost of living in the dormitories is \$97.25 for board and room for each term, laundry \$8.00, and an infirmary fee of \$1.75 per term.

A *deposit* of 50 cents for a *room key* is to be made with the auditor.

A *deposit* of \$5.00 will be required when a room is reserved, or assigned, and will be retained until the reservation is cancelled and the room is inspected and found in good condition.

Payments for *board, room and laundry* may be made in advance at the time of registration, or in installments as follows, for the first term, session of 1943-44.

On registration.....	\$ 26.75
Thursday, July 29, 1943.....	26.75
Thursday, August 26, 1943.....	26.75
Thursday, September 23, 1943.....	26.75
	<hr/>
TOTAL.....	\$107.00

Students are expected to accept the responsibility of looking after payments promptly.

The room deposit of \$5.00 will be refunded on request made not later than two weeks before the opening of the semester.

Short absences do not lessen the cost of operating the boarding department, and no deduction will be made for an absence of a week or less. For longer absences deduction will be made for the number of days in excess of seven.

Excess laundry charges will be made according to conditions on the printed laundry slip.

Dormitory students are advised not to leave money in their rooms. Deposits may be made at the Auditor's office.

The Auditor will not approve the resignation of any student who is indebted to the college, nor will credit be given for academic work until all indebtedness has been settled.

No fee is required of students who major in music. Instruction in piano, voice or violin, is offered to those who do not major in music at the rate of \$15.00 for a term, payable in advance.

SUMMARY OF EXPENSES

Dormitory Students

	1st Sem 1943-44	2nd Sem. 1943-44
Registration fee, each term (payable by all students).....	\$ 10.00	\$ 10.00
Student subscription to The Tech Talk, per term.....	.75	.75
Visual Education fund.....	.50	.50
College Annual subscription, (including payment for picture, payable in first term).....	4.00	
Board and room in the dormitories, per term.....	97.25	97.25
Laundry	8.00	8.00
Infirmary fee, in dormitory, per term.....	1.75	1.75
Dormitory key deposit.....	.50	.50
Music tuition, per term (for non-music majors).....	15.00	15.00
Chemistry breakage deposit.....	5.00	
Books and supplies (average).....	18.00	18.00
Graduation fee (payable at beginning of last term before graduation).....	10.00	
Organ or Harp tuition—non-majors.....	30.00	30.00
Organ or Harp tuition—majors.....	15.00	15.00
Mechanical Engineering laboratory fee (Mech. Engr. 780)	7.50	7.50

Other Students

	1st Sem 1943-44	2nd Sem. 1943-44
Registration fee, each term (payable by all students).....	\$ 10.00	\$ 10.00
Visual Education Fund.....	.50	.50
College Annual subscription, (including payment for picture, payable in first term).....	4.00	
Music tuition, per semester (for non-music majors).....	15.00	15.00
Chemistry breakage deposit.....	5.00	
Books and supplies (average).....	18.00	18.00
Graduation fee (payable at beginning of last semester before graduation).....	10.00	
Organ or Harp tuition—non-majors.....	30.00	30.00
Organ or Harp tuition—majors.....	15.00	15.00

An engineering student will need additional supplies, such as drawing set, drawing board, T square, etc., amounting to about \$12.00.

Since the fall semester, 1941, the out-of-state fee has been \$50.00 per semester; however, this does not apply to students enrolled prior to September, 1941. These students will continue to pay at the rate of \$24.00 per semester.

According to a resolution of the State Board of Education, an out-of-state student is defined as follows:

A college student whose parent or guardian (legal guardian) lives in another state shall be classified as a non-resident, or out-of-state student, and this classification shall continue as long as the student is a member of the student body of a college under the control of this Board, and such student shall be required to pay the fees assessed against non-resident students. This classification of non-resident students shall govern in the case of out-of-state students twenty-one years of age or over.

It should be understood that the mere owning of real estate in Louisiana does not make one a resident of this State.

EXAMINATIONS

Examinations include *regular* and *special* examinations. *Regular examinations* are held at the end of each semester and they are required of all students. Each examination covers a period of not over three hours.

Special examinations include postponed examinations and deficiency examinations.

Each student must pay a fee of one dollar for each special examination, but the total fee paid by each student will not exceed three dollars. .

Special examinations are held on the third and fourth working days of each semester.

Permission to take any of these examinations must be obtained through the Registrar's office.

A student whose final examinations have been postponed must take them at the time scheduled for special examinations immediately following his registration. A student who fails to take these examinations at the prescribed time will forfeit his right to take them and will receive a grade of *F* in the course.

A candidate for graduation who fails to pass the final examination in only one course in his last semester work may be permitted to take a deficiency examination in this course. In the event that he fails the deficiency examination, he must repeat the course.

SYSTEM OF GRADING

The grade marks are divided as follows:

A: The grade of A is given for the highest degree of excellence that it is reasonable to expect of students of exceptional ability and application.

B: The grade of B is given for a superior quality of work, but not of as high a quality as should be expected of students of exceptional ability.

C: The grade of C is given for a quality of work that is above the requirement for a grade of D and represents the average work to be expected from classes in general.

D: The grade of D is given for a quality of work that is the minimum requirement for receiving credit for the course.

F: The grade of F is given to denote failure and to

Exams,
Grading Ect.

indicate that the work must be repeated before credit will be given.

QUALITY POINTS

The quality of work is indicated by quality points. Quality points are assigned to the various grades for each semester hour on the following basis:

GRADE	QUALITY POINTS
A	3 (per semester hr.)
B	2 (per semester hr.)
C	1 (per semester hr.)
D, F	0

The applicant for a degree must have earned one quality point for each semester hour required in his curriculum.

The quality point plan will not be applied in its entirety to students coming from other colleges, so far as the college hours earned in the other colleges are concerned. The head of the department entered will determine the number of semester hours that may be accepted and the conditions under which they will be accepted.

RATING OF STUDENTS

The rating of any student or any group of students is determined by dividing the number of net quality points by the number of hours of academic work for which the student or group was registered.

HONORS

By a system of class, departmental, and general honors, the college gives official recognition of attainments in scholarship.

DEPARTMENTAL HONORS

A student is graduated with departmental honors if he has complied with the following requirements:

1. Earned at least 24 hours in one department.
2. Maintained a 2.5 average in courses of that department during his junior and senior years.
3. Maintained in all courses during his junior and senior years an average of at least 1.7, and received in no course a grade below C.

GENERAL HONORS

At graduation the degree is conferred *cum laude* upon

students who have maintained an average rating of 2.2; *magna cum laude* upon those who have maintained an average of 2.6; and *summa cum laude* upon those who have maintained an average rating of 2.9 during their four years of work.

To be eligible for any honors, a student must be registered for not fewer than 15 hours of work during any semester.

CONDUCT AND DISCIPLINE

Louisiana Polytechnic Institute expects every student to conduct himself in an approved manner, observing such rules and regulations as are laid down by the college. By way of enforcing these rules and regulations the college employs two kinds of probation: scholastic probation and disciplinary probation, these being under the direction of the Dean of Men and the Dean of Women but subject to the ultimate supervision of the President.

A. Scholastic Probation.

Scholastic probation is determined by the following schedule of cumulative arithmetical averages:

	COLUMN I	COLUMN II
One semester.....	0.3	0.0
Two semesters.....	0.4	0.2
Three semesters.....	0.5	0.3
Four semesters.....	0.6	0.4
Five semesters.....	0.7	0.5
Six semesters.....	0.8	0.6
Seven semesters.....	0.9	0.7
Eight or more semesters	1.0	0.8

Interpretation of above schedule:

1. A student whose point average falls below the figures in Column I is automatically placed on probation.
2. A student whose point average falls below the figures in Column II is automatically dismissed from college unless an exception is made by the faculty committee on academic deficiency.
3. A student who returns to college after dismissal for scholastic reason will be allowed two semes-

ters to bring his average up to the point average in Column II, provided that in the first of those two semesters he makes up at least half of his quality point deficiency.

4. A student will not incur the penalty of scholastic probation or dismissal for a deficiency of a fraction of a quality point.
5. A student who is dismissed for scholastic deficiency will not be admitted the succeeding semester to any of the colleges under the supervision of the State Board of Education.
6. These regulations apply to regular students; i.e., those carrying a minimum of 12 hours.

The above regulations became effective at the end of the first semester 1942-43.

B. *Disciplinary Probation.*

The provisions of disciplinary probation are the following:

1. Violation of college regulations during the time of probation will cause the student to be suspended for a period to be determined by the faculty committee on discipline.
2. Initiation into any social or honorary organizations is prohibited.
3. All absence privileges are withdrawn.
4. Such a student may not run for office.
5. No student on probation may represent the college in any intercollegiate event other than in athletic contests which are governed by S.I.A.A. regulations.

OTHER REGULATIONS

"Campusing" is a measure used for the sake of discipline by the deans. A student who has disregarded regulations may be confined to the campus for a period of time designated by his or her dean; and may not be permitted to attend extra-curricular functions on the campus, such as ball games or programs given in the auditorium.

If the nature of the offense or infraction of rules seems to demand a heavier punishment, a student may be placed on

"strict campus," which means that there will be no social contact other than that necessary for carrying on class work.

If a student has been corrected during a period of "campus" the period will be extended.

Hazing is prohibited. Hazing is defined as the unauthorized entrance into the room of other students, or subjecting fellow-students to indignities of any character. Mingling with a crowd or following a crowd engaged in hazing will be considered to be participation in hazing. Mingling with a crowd, following a crowd, or attempting to gain forcible entrance to any room or building is also considered a violation of discipline.

On entering college, each student is required to subscribe to the following:

"I PLEDGE MY HONOR TO REFRAIN FROM ANY AND ALL FORMS OF HAZING AND TO RESPECT AND OBEY ALL RULES AND REGULATIONS OF THE FACULTY."

No social function shall be scheduled by any body of students without permission of the Dean of Women, with whom arrangements must be made.

Women students who expect to board in town will be required to see the Dean of Women before they are allowed to register. *Only junior and senior women* may board in town without special permission.

Any change of address must be reported at once to the Registrar and to the Dean of Men or Dean of Women.

CLASS ATTENDANCE

Regular attendance upon classes is required of all students. However, by way of covering absences from unavoidable causes, such as illness, a student is permitted to be absent from class without an excuse as many times during a semester as that class meets per week. If the student is absent without an excuse *one* class period in excess of the number of absences allowed, he will be placed on cut probation by the dean. If he is absent *two* class periods in excess of the number of absences allowed, he will be liable to dismissal from the college. The *total number of absences* per semester in any class, regardless of the cause of such absences, may not exceed three times the number of times the class meets per week without causing the student to fail in the course.

EXCUSES

A student will not be excused for an unauthorized absence. A student who has an authorized absence from a class must obtain a written excuse from the dean of men or dean of women and present it to his instructor within one week from the time he reports back to class. If he fails to do this, the absence will be recorded as unauthorized.

CHEATING

Students are expected to be honest in all their college work. Any student found guilty of cheating will, if it is his *first offense*, be reported in writing by his instructor to the Dean of Men or the Dean of Women. This report will be filed in the dean's office, and the student will be required to drop the course in which the offense occurred and to receive a failing grade in that course. If such a student is reported again for cheating, the dean will report him to the Discipline Committee. If he is found to be guilty of having cheated a *second time*, he will be expelled from the college.

HONORABLE DISMISSAL

The term "Honorable Dismissal" is used to refer to conduct and character only. An Honorable Dismissal is never given unless the student's standing as to moral conduct and character is such as to entitle him to continuance in the college. Furthermore, in every transcript of the student's record full mention is made as to the cause of withdrawal.

CAMPUS PRIVILEGE

A student who has resigned or who has been suspended or expelled must leave the campus within twenty-four hours after severing his relation with the institution.

FINANCIAL AID

STUDENT EMPLOYMENT

Opportunity is given to a limited number of students to earn board and lodging, but all students are required to pay the registration, library, laboratory, and infirmary fees. Only those students whose scholarship is satisfactory will be given employment by Louisiana Polytechnic Institute.

SCHOLARSHIPS, LOANS, ETC.

A scholarship, exempting the student from the payment of registration fees, is granted annually to a graduate of each

state-approved high school of Louisiana ranking in the highest one-fourth of his class.

The George O. Thatcher Memorial Loan Fund was established in 1925 by a gift of two hundred dollars from Mrs. W. F. Pearce. The fund is maintained by the Alumni Association and all life membership fees become a part of the loan fund. The sum of fifteen hundred dollars of this fund has been used as loans to students recommended by the President of the College and the Thatcher Memorial Loan Fund Committee.

The Pierian Club of Ruston maintains a loan fund for women students who are recommended by the President of the College and the Education Committee of the Club. This loan fund was established in 1910 and has been maintained without interruption since that time.

Sena Hardy Loan Fund was established in 1932 and is available to women students of junior and senior standing. Applications for loans should be made to the Dean of Women.

The Ruston Branch of the American Association of University Women maintains a loan fund which is available to senior women students.

GUIDANCE

It is the desire of the administration of Louisiana Polytechnic Institute that each student receive individual treatment. To this end the Office of Guidance was established. Advisers are eager to meet with all students and to discuss with them whatever problems arise that are related to their well-being while in residence in the college.

Students will find this counseling service particularly valuable at the time of registration. The advisers will aid in interpreting the rules and regulations as found in the catalogue and T-Book, in describing the courses which are being offered, and in arranging a program of classes in keeping with each student's needs and opportunities.

Students who enter the college with advanced standing from other colleges will find it definitely to their advantage to secure the guidance of an adviser in adapting the educational offerings of this college.

There are many other phases of the student's life which

have a definite bearing on his educational well-being and which at times constitute problems which may be most easily solved through the friendly counsel and advice of those faculty representatives.

Students may expect to derive greatest benefits from the educational opportunities afforded by the college when they intelligently seek and follow the advice which the educational counselors give them.

ORIENTATION

A course required of all first semester freshmen. The purpose of the course is fourfold: First, to provide a time in which to gather information from the freshman which is necessary for proper guidance. Second, to acquaint the student with the aims, purposes, organization and regulations of the school. Third, to help the student to evaluate his own study habits, to recognize his weaknesses and to strengthen his good habits. Fourth, to lead the student to understand the bases for human adjustments. Credit, one hour.

STUDENT ORGANIZATIONS

DEPARTMENTAL CLUBS

Agriculture Club, Biology Club, Business Administration and Economics Club, Teachers Club, Engineering Association, Galois Mathematics Club, Home Economics Club, Health and Physical Education Club, Lyre Club, Philharmonic Society, Pre-Legal Society, Freshman Players, Radio Club, "T" Club.

GENERAL ORGANIZATIONS

Student Body Association, Women's League (association of all women students), Alpha Phi Omega (Boy Scout), Student Union, Theta Beta Club (commuting women students).

HONORARY CLUBS

Blue Jackets, Debate Club, International Relations Club, Open Forum Club, Tech Theatre Players.

HONORARY SCHOLASTIC FRATERNITIES AND CLUBS

Delta Alpha Rho (engineering), Gamma Epsilon, Sigma Tau Delta (national English fraternity), Tau Chi Sigma (chemistry), Los Hispanofilos, National Demeter Agricultural Fraternity, T. H. Harris Scholarship Group.

MUSIC ORGANIZATIONS

Freshman Girls' Glee Club, Band o' Glee (women), Drive-In Choir, Tech Choir, Girls' Band, The Tech Band, The Tech Symphony Orchestra.

RELIGIOUS ORGANIZATIONS

Religious Organization's Council, Y. M. C. A., Y. W. C. A., Baptist Student Union, Canterbury Club, Newman Club, Westminster Club, Wesley Foundation.

SOCIAL ORGANIZATIONS

Councils: *Interfraternity, Panhellenic.*

Fraternities: *Alpha Lambda Tau, Kappa Sigma, Lambda Chi Alpha, Pi Kappa Alpha, Theta Xi.*

Sororities: *Delta Chi Delta (local), Kappa Alpha Zeta (local), Kappa Delta, Sigma Kappa, Theta Upsilon.*

STUDENT PUBLICATIONS

The student publications are *The Tech Talk*, the weekly paper; *The Lagniappe*, the college annual; *The Tech Review*, the literary magazine; *The Cultivator*, the agriculture magazine; and *The Tech Engineer*.

ATHLETICS AND PHYSICAL TRAINING

All phases of athletics for men are encouraged: football, baseball, basketball, track, tennis, volleyball, hockey, soccer, fieldball, boxing, and wrestling. The college has, on the main campus, adequate facilities for conducting these forms of physical training: a recently constructed football track with baseball diamond, practice fields, a quarter-mile track with two-hundred-twenty yard straightaway, and tennis courts, as well as separate gymnasiums for men and women in which are conducted physical training exercises, basketball, and other sports.

Intercollegiate contests in the minor athletic sports are participated in by men of the college. The college is a member of the Southern Intercollegiate Athletic Association. Over-emphasis, however, is not placed upon representation upon the college teams, but students are urged to engage in other forms of physical training and are required to pursue courses in physical education in the freshman and sophomore years.

Intercollegiate contests in athletics for women are dis-

couraged. All women students are urged to take part in some form of athletics and are required to take physical education during their freshman and sophomore years.

Medical examinations at the beginning of the year determine the type of exercise each student takes. Those not able to take part in the major sports are required to engage in minor activities, such as quoits, croquet, and hiking.

All candidates for athletic teams must adhere strictly to the rules and regulations of the Southern Intercollegiate Athletic Association. The general regulations of the college apply to athletes as well as to other students.

STUDENT PLACEMENT AND ALUMNI SERVICE

The Department of Student Placement and Alumni Service was created for the purpose (1) of assisting graduates and former students of Louisiana Polytechnic Institute to find employment suited to their training and capabilities, make the necessary adjustments in their chosen vocations, and secure promotion when their success seems to merit it; and (2) to cooperate with the officers of the Alumni Association in their efforts to benefit their institution.

Blanks for enrollment with this department may be obtained from this office.

School administrators, business men and other employers needing the services of those trained in the different schools of the college are invited to call upon this department to assist them in meeting their needs.

Every effort is made by the department and members of the faculty cooperating with it to supply accurate and reliable information about the persons who are seeking employment.

MISCELLANEOUS

CHURCHES

Ruston has eight churches: First Baptist, Temple Baptist, Church of Christ, Church of God, Episcopalian, Methodist, Presbyterian, and Roman Catholic.

LECTURES AND CONCERTS

As a part of its educational program, Louisiana Polytechnic Institute brings to the campus each year noted writers, scholars, lecturers, and entertainers as well as famous

musical organizations. These attractions are usually presented without extra expense to students and are scheduled at the weekly assembly hour so that all students may have opportunity to see and hear them.

TRANSCRIPT OF RECORD

A transcript of the work a student has completed in Louisiana Polytechnic Institute will be furnished upon request, provided he is not indebted to any department of the college. One transcript is issued without charge; for each additional one a fee of \$1.00 is charged. No transcripts are issued during the first ten days of either semester, or the first week of the summer session.

AWARDS AND PRIZES

Epsilon Gamma chapter (of Kappa Sigma) award for most valuable Journalism student.

Open Forum award for most outstanding English major.

Prize to member of graduating class rendering most unselfish service while in college; given by a citizen who wishes to remain anonymous.

Louisiana State University graduate scholarship; awarded annually.

SPECIAL ANNOUNCEMENT

LOUISIANA POLYTECHNIC INSTITUTE AND THE WAR

All colleges are expected to make an all-out effort to help win the war and the peace to follow.

Louisiana Polytechnic Institute has consecrated all its facilities to this effort. Its special war services are listed and described below.

TWELVE WEEKS SUMMER COURSE

For the summer of 1943, and for the duration of the war, the summer session will run twelve weeks. This will enable students to take the equivalent of four three-hour courses and to earn twelve semester hours of credit.

This plan will hasten the advancement and graduation of all students. In these troubled days every student who can possibly do so should enroll in college for the summer session, and every student already in college should attend summer school.

SPECIAL WAR COURSES

All of these courses are financed by the United States Government and involve no expense to the student. (For information as to other courses having special wartime value, see under each department).

1. *Engineering, Science, and Management War Training.*

These courses are given both on our campus in Ruston and at Centenary College in Shreveport under our sponsorship.

Courses given are: Fundamentals of Radio, Engineering Drawing, Topographic Mapping and Surveying, and Pre-Radar. Approximately 400 students per year are enrolled. The courses are of college grade but no college credit is given.

2. *Vocational Education for National Defense.*

These are trades courses and are not of college grade. They include Machine Operating and Welding. Approximately 251 students per year are enrolled.

3. *Civilian Aeronautics Administration War Training Service.*

This is an elementary course and covers 240 hours of Ground School instruction and thirty-five to forty hours of Flight Training. Approximately 90 students per year are enrolled.

4. *Army Specialized College Training Program.*

This is the Army's plan for screening out approximately 250,000 promising inductees and sending them to college at government expense.

The details of the plan have not yet been announced, but we expect Louisiana Polytechnic Institute to be selected as one of the colleges to which a group of men will be sent.

Exact details will be announced as soon as received.

5. *Laboratory Technician — Medical Technologist.*

Course A—Biology 640, 641.

Course B—Biology 642, 642, 644.

(See main catalog for descriptions.)

At the request of the Surgeon General of the U. S. Army, the American Red Cross is enrolling medical technologists to build up a reserve for possible service in the medical departments with the armed forces. In order to enroll with the Red Cross, one must have completed at least two years of college work including 8 hours of inorganic chemistry, 4 hours of quantitative analysis, and 4 hours in animal biology; and, in addition, have one year's training in a school for clinical laboratory technicians approved by the American Medical Association, as indicated in courses above.

Women who qualify physically and are employed as civilian laboratory technicians will receive \$1800 less deduction of \$390 for quarters and rations. *College credit for these two courses may be had by special examination.*

Special
Announcements

NAVY V-12

Louisiana Polytechnic Institute has been approved by the Joint Committee for the Selection of Non-Federal Educational Institutions for inspection and possible contract by the Navy Department for basic training on the V-12 Program. A group of Naval Officers has inspected our facilities and their report is now in Washington. We do not expect official selection to be published until about May 1, but we have every reason to believe that Louisiana Polytechnic Institute will be selected as one of the institutions at which the Navy's V-12 will be put into effect.

This Navy V-12 Program is generally regarded as the very best of all the military programs being conducted in colleges. A group of approximately 600 men will probably be sent to the Louisiana Tech campus, and those who are trainees for general duties will receive training for three terms. Trainees for specialized services (medical, dental and engineering) will receive from six to twelve terms. The Navy will furnish selected trainees with clothes, board and lodging, and all necessary additional expenses, and approximately \$50.00 per month in cash.

We suggest that all interested young men and their parents watch for an official announcement from this institution which will be issued at the earliest possible moment, probably by May 1. The program will be put into effect July 1, 1943.

Part III—The Schools; Curricula; Courses

SCHOOL OF AGRICULTURE

RAYMOND LESLIE REESE, *Dean*

ASSOCIATE PROFESSOR C. B. HOBGOOD,* ASSISTANT PROFESSORS J. S. GREEN,*
R. S. WOODWARD*

PURPOSE

The courses in agriculture at Louisiana Polytechnic Institute have been organized and developed during the last few years with special consideration for the needs of three or four hundred boys living in Northern Louisiana, who desire to pursue the study of agriculture and who, for one reason or another, would not attend institutions at a distance from their homes.

Recently, curricula for a four-year course in general agriculture, and for a major in horticulture, or agronomy, or dairy husbandry or animal husbandry, or in agriculture with a minor in education have been set up, each of these curricula leading to the degree of bachelor of science in agriculture.

FACILITIES

Excellent facilities for its teaching have been provided during the past five years. The college now has available for its use about three hundred and fifty acres of land, part of which lies within the city limits of Ruston and near the college campus. Modern buildings and other equipment for carrying on general farming and livestock and dairy farming in Northern Louisiana are in use.

A herd of about one hundred pure-bred Jersey and Holstein cattle is maintained to furnish laboratory material for teaching and to provide dairy products for use on the campus. Likewise, herds of swine and beef cattle are kept. The Uni-

*On leave for military service.

ted States Soil Conservation Service maintains practical demonstrations in all of its phases of soil and water control, land use, and reforestation on the college farm. The development of orchards and gardens is now under way by the Horticulture department. A modern one-story dormitory for boys has been erected on the college farm.

A new two-story brick and concrete building for exclusive use in teaching agriculture is now in use on the college farm. Excellent laboratories have been supplied for teaching agronomy, horticulture, dairying, and animal husbandry. The dairy laboratory and creamery have modern equipment for pasteurizing, cooling and bottling milk, and production of butter, ice cream, and other dairy products. The work required in producing these, and carried out chiefly by students, affords excellent laboratory practice along with the teaching of these subjects. Facilities for farm butchering and curing meats on a small scale are provided.

CURRICULUM

FOR GENERAL COURSE IN AGRICULTURE

(LEADING TO B. S. IN AGRICULTURE)

FRESHMAN YEAR		Semester Hours
English 401, 402: Freshman Composition.....	6	
Biology 401, 402: General Biology.....	8	
or		
Chemistry 401, 402: General Inorganic Chemistry.....	8	
Animal Husbandry 401, 402: Livestock Judging.....	6	
Animal Husbandry 403: Feeds and Feeding.....	3	
Horticulture 401: General Elementary Horticulture.....	3	
Agronomy 401: Forage Crops.....	3	
Physical Education 401, 402.....	2	
Orientation 401.....	1	
Total semester hours.....		32
SOPHOMORE YEAR		Semester Hours
Chemistry 401, 402: General Inorganic Chemistry.....	8	
or		
Biology 401, 402: General Biology.....	8	
Mathematics 407, 408: Mathematics for Students of Agriculture	6	
Animal Husbandry 502: Breeding and Improvement of Livestock.....	3	
Agronomy 501: Field Crops.....	3	
Dairy Husbandry 504: Farm Dairying.....	3	
Horticulture 550: Vegetable Gardening.....	3	
Horticulture 551: Fruit Growing.....	3	
Animal Husbandry 552: Poultry Production.....	3	
Physical Education 403, 404.....	2	
Total semester hours.....		34

JUNIOR YEAR	Semester Hours
English 502: American Literature.....	3
Dairying 601: General Dairy Laboratory Work.....	3
Animal Husbandry 601: Beef Cattle Production.....	3
Animal Husbandry 602: Swine Production.....	3
Horticulture 601: Elementary Landscaping.....	3
Biology 511: Entomology or Injurious Insects.....	4
Chemistry 620: Agriculture Chemistry.....	3
Physics 503: Physics for Agriculture Students.....	3
Economics 501: General Economics.....	3
Agronomy 601: Soils and Fertilizers.....	4
Electives.....	6
Total semester hours.....	38

SENIOR YEAR	Semester Hours
Animal Husbandry 701: Farm Meats.....	3
Animal Husbandry 702: Diseases of Animals.....	3
Biology 630: Diseases of Plants.....	3
Commerce 401: Farm Bookkeeping.....	3
Agronomy 701: Conservation.....	3
Economics 620: Agriculture Economics.....	3
Economics 629: Farm Marketing.....	3
Agronomy 702: Farm Management.....	3
Agronomy 503: Farm Machinery.....	3
Sociology 610: Rural Sociology.....	3
Electives.....	6
Total semester hours.....	36
TOTAL hours for graduation.....	140

Note: Electives in the junior and senior year are to be chosen with the approval of the faculty advisers from the following groups: social science, English, journalism, chemistry, education, mathematics, geography. A maximum of two semester hours in music may be applied as an elective toward graduation.

CURRICULUM FOR MAJORS IN AGRONOMY

(LEADING TO B. S. IN AGRICULTURE)

Freshman and sophomore years are the same as for the general curriculum.

JUNIOR YEAR	Semester Hours
Agronomy 601: Soils.....	4
Agronomy 603: Field Crops Management.....	3
Agronomy 605: Cotton.....	3
Biology 403: Bacteriology.....	4
Biology 520: Plant Physiology.....	4
Biology 610: Genetics.....	3
Chemistry 605: Qualitative.....	3
Economics 501: Principles of Economics.....	3
Agronomy 503: Farm Machinery.....	3
Physics 503: A Course for Agriculture Students.....	3
English 502: American Literature.....	3
Total semester hours.....	36

SENIOR YEAR	Semester Hours
Agronomy 701: Soil Fertility.....	4
Agronomy 702: Farm Management.....	3
Agronomy 703: Soil Conservation.....	3
Agronomy 705: Plant Breeding.....	3
Biology 521: Taxonomy.....	4
Biology 630: Plant Diseases.....	3
Chemistry 620: Agriculture Analysis.....	3
Public Speaking 510: Principles of Speech.....	3
Electives*	12
Total semester hours.....	38
TOTAL hours for graduation.....	140

* Electives to be chosen according to instructions shown for the students in the general course in agriculture.

CURRICULUM FOR MAJORS IN DAIRY HUSBANDRY

(LEADING TO B. S. IN AGRICULTURE)

During the freshman and sophomore years students majoring in dairying will follow the same curriculum as given in the general course in agriculture.

JUNIOR YEAR	Semester Hours
English 502: American Literature.....	3
Dairy Husbandry 601: Dairy Laboratory.....	3
Animal Husbandry 602: Swine Production.....	3
Biology 403: Bacteriology.....	4
Biology 610: Genetics.....	3
Economics 501: General Economics.....	3
Dairy Husbandry 602: Advanced Dairy Judging.....	3
Chemistry 620: Agricultural Analysis.....	3
Dairy Husbandry 603: Advanced Dairy Problems.....	3
Agronomy 601: Soils and Fertilizers.....	4
Dairy Husbandry 604: Dairy Practicums.....	2
Electives*	3
Total semester hours.....	37

SENIOR YEAR	Semester Hours
Animal Husbandry 702: Diseases of Animals.....	3
Biology 630: Diseases of Plants.....	3
Commerce 401: Farm Accounting.....	3
Economics 620: Agriculture Economics.....	3
Economics 629: Farm Marketing.....	3
Sociology 610: Rural Sociology.....	3
Dairy Husbandry 703: Dairy Manufactures.....	3
Dairy Husbandry 704: Advanced Dairy Problems.....	3
Dairy Husbandry 705: Dairy Seminar.....	3
Dairy Husbandry 706: Dairy Practicums.....	2
Electives*	9
Total semester hours.....	38
TOTAL hours for graduation.....	141

* Electives to be chosen according to instructions shown for the students in the general course in agriculture.

CURRICULUM FOR MAJORS IN HORTICULTURE

(LEADING TO B. S. IN AGRICULTURE)

During the freshman and sophomore years students majoring in horticulture will follow the same curriculum as given in the general course in Agriculture.

JUNIOR YEAR		Semester Hours
Horticulture 601: Elementary Landscaping.....	3	
Horticulture 603: Small Fruit and Nut Culture.....	3	
Horticulture 605: Systematic Pomology.....	3	
English 502: American Literature.....	3	
Biology 511: Economic Entomology.....	4	
Agronomy 601: Soils and Fertilizers.....	3	
Economics 620: Agriculture Economics.....	3	
Chemistry 620: Agriculture Analysis.....	3	
Biology 520: Plant Anatomy and Physiology.....	4	
Biology 630: Diseases of Plants.....	3	
Electives*.....	3	
Total semester hours.....		35

SENIOR YEAR		Semester Hours
Horticulture 701: Commercial Fruit Production.....	3	
Horticulture 703: Insects and Diseases of Fruit and Vegetables.....	3	
Horticulture 705: Advanced Landscaping.....	3	
Horticulture 707: Advanced Vegetable Problems.....	3	
Horticulture 709: Nursery Practices.....	2	
Horticulture 711: Seminar.....	2	
Biology 610: Genetics.....	3	
Agronomy 702: Farm Management.....	3	
Agronomy 703: Conservation.....	3	
Electives*.....	12	
Total semester hours.....		37
TOTAL hours for graduation.....		140

* Electives to be chosen according to instructions shown for the students in the general course in agriculture.

DESCRIPTION OF COURSES

ANIMAL HUSBANDRY 401: *A Study of Types and Breeds of Farm Animals and Livestock Judging.* Three hours. One lecture, four laboratory hours.

A study of the origin, native homes, adaptability and distribution of the more important types and breeds of domesticated livestock.

ANIMAL HUSBANDRY 402: *A Continuation of Animal Husbandry 401.*

ANIMAL HUSBANDRY 403: *The Feeding of Farm Animals.* Three hours lecture.

The principles of animal nutrition; the composition and

digestibility of feedstuffs; the selection of feeds; balancing rations, and the economical feeding of animals for various purposes.

ANIMAL HUSBANDRY 502: *The Principles of Animal Breeding*. Three hours. Prerequisites, Biology 401, 402.

ANIMAL HUSBANDRY 552: *Poultry Production*. Three hours lecture. Prerequisite, Animal Husbandry 403.

The feeding, breeding, care and management of the farm poultry flock; the use of incubators and brooders; poultry selection, marketing and judging. General problems involved in poultry growing.

ANIMAL HUSBANDRY 601: *Beef Cattle Production*. Three hours lecture. Prerequisites, Animal Husbandry 401, 402, 403.

A study of the general problems involved in the production of beef cattle on the farm.

ANIMAL HUSBANDRY 602: *Swine Production*. Three hours lecture. Prerequisites, Animal Husbandry 401, 402, 403.

ANIMAL HUSBANDRY 701: *Farm Meats*. Three hours. Prerequisites, Animal Husbandry 401, 402, 403, 503.

The home meat supply. General problems in producing and slaughtering animals for use in the home or community. Proper methods of handling animals for slaughter; killing and dressing animals. Curing of meat products, sausage making; a study of the various cuts and their economical uses.

ANIMAL HUSBANDRY 702: *Diseases of Animals*. Three hours. Prerequisites, junior standing, consent of instructor.

A study of the common infectious and non-infectious diseases of farm animals, sanitation, diagnosis, prevention, treatment.

AGRONOMY 401: *Forage and Pasture Crops*. Three hours. Three hours lecture per week.

The growth, distribution, culture and uses of forage and pasture crops with special attention to those adapted to the South.

AGRONOMY 501: *Southern Field Crops*. Three hours. First semester. Three hours lecture per week.

The characteristics, adaptation, cultural requirements, harvesting and storage of field crops in the U. S., primarily the South.

AGRONOMY 601: *Soils*. Four hours. First semester. Prerequisites, Chemistry 407, 408. Three hours lecture and two hours laboratory per week.

Fundamental principles of soil science and the relation of soil properties to plant growth.

AGRONOMY 605: *Cotton*. Three hours. First semester. Prerequisite, Agronomy 501. Three hours of lecture per week.

A general survey of the production methods, marketing and uses of cotton.

AGRONOMY 702: *Farm Management*. Three hours. Prerequisite, senior standing. Three hours of lecture per week.

The methods of farming adapted to southern conditions; selecting the farm; the organization and development of the farming system and farm records.

AGRONOMY 703: *Soil Conservation*. Three hours. First semester. Prerequisite, Agronomy 601. Three hours lecture per week.

The conservation of soils through control of run-off water.

AGRONOMY 752: *Farm Machinery*. Three hours. First semester. Prerequisite, consent of instructor. Two hours lecture and two hours laboratory per week.

The construction, adjustment, operation and repair of various types of farm machinery, for seeding, tillage and harvesting. Displays and handling of modern farm machinery.

DAIRY HUSBANDRY 504: *Farm Dairying*. Three hours lecture. Prerequisites, Animal Husbandry 401, 402, 403.

DAIRY HUSBANDRY 601: *A Laboratory Course in Dairy Products*. Four hours laboratory, one hour lecture. Babcock testing of milk and milk products; use of the

lactometer; standardizing; use of separators; methods of cream raising; various tests for cleanliness of milk; methods of producing and handling milk; proper care of milk utensils.

DAIRY HUSBANDRY 602: *Advanced Dairy Judging*. One lecture, four hours laboratory. Prerequisites, Animal Husbandry 401, 402.

DAIRY HUSBANDRY 603: *Advanced Dairy Problems*. Three hours lecture. Prerequisites, senior standing, consent of instructor.

A study of some of the more advanced problems of dairy production; assigned reading; reports.

DAIRY HUSBANDRY 604: *Dairy Practicums*. Four hours laboratory. Prerequisites, junior standing, consent of instructor.

The course consists of actual practical work carried on in the dairy barns, laboratories and milk houses. The student majoring in dairying will be required to have the practical experience in milk production and in the care and handling of milk from the cow through the pasteurizing, cooling, and bottling of milk.

HORTICULTURE 401: *General Elementary Horticulture*. Three hours. Two lectures and one laboratory.

A study of the different phases of horticulture, plant propagation and care, and an introduction to fruit and vegetable growing.

HORTICULTURE 550: *Vegetable Growing*. Three hours, two lectures and one laboratory. Prerequisite, Horticulture 401.

Planning, planting, and equipping the farm garden. Fertilizing, spraying, marketing. Use of hotbeds and cold-frames. Practical experience in growing vegetables.

HORTICULTURE 551: *Fruit Growing*. Three hours two lectures and one laboratory. Prerequisite, Horticulture 401.

Problems of location, planting, cultivation, pruning and harvesting; control of disease and insects.

HORTICULTURE 601: *Elementary Landscaping*. Three

hours, one lecture and two laboratories. Prerequisite, Horticulture 401.

A study of plant material, principles of design and planning the home grounds. Actual landscaping of the home.

HORTICULTURE 603: *Small Fruit and Nut Culture*. Three hours, two lectures, one laboratory. Prerequisites, Horticulture 401 and 551.

A study of the requirements of the various small fruits and nuts, locations, planting, cultivating, control of disease and insects and harvesting.

Courses not described above will be offered in subsequent years as the need for them develops. These include Agronomy 603: Field Crop Management; Agronomy 701: Soil Fertility; Agronomy 705: Plant Breeding; Dairy Husbandry 703: Dairy Manufactures; Dairy Husbandry 704: Advanced Dairy Problems; Dairy Husbandry 705: Dairy Seminar; Dairy Husbandry 706: Dairy Practicums; Horticulture 605: Systematic Pomology; Horticulture 701: Commercial Fruit Production; Horticulture 703: Insects and Diseases of Fruits and Vegetables; Horticulture 705: Advanced Landscaping; Horticulture 707: Advanced Vegetable Problems; Horticulture 709: Nursery Practice; and Horticulture 711: Seminar.

SCHOOL OF ARTS AND SCIENCES

HERBERT L. HUGHES, Dean

PURPOSE

The purpose of the School of Arts and Sciences may be stated as follows: (1) to provide a broad, general education for those who desire this rather than a more specialized, technical education; (2) to give the basic courses common to the other schools of the college, such as, English, mathematics, languages, natural sciences, etc.; (3) to provide pre-professional training for those students who intend to study law, medicine, dentistry, pharmacy, etc.; (4) to assist in the preparation of prospective teachers who desire to major in and teach such subjects as English, foreign languages, mathematics, natural science, social science, music, etc.; and (5) to provide professional training for such students as music students, particularly those who intend to teach.

In general, the student in the School of Arts and Sciences is required to acquaint himself with the main fields of intellectual interest and in addition to acquire, through his major study, a thorough knowledge of some special field. Thus, he may obtain a liberal education, which will prove invaluable to him as preparation for a business or professional career as well as for richer and better living.

DEPARTMENTS AND CURRICULA

The school of Arts and Sciences includes the departments of Art, Biology, Chemistry, English and Foreign Languages, Health and Physical Education for Men, Health and Physical Education for Women, Journalism, Mathematics, Music, Physics, and Social Sciences. It offers curricula leading to the regular degrees of bachelor of arts and bachelor of science, and the more specialized degrees of bachelor of music and bachelor of arts or science in a special subject.

The courses for the regular B.A. and B.S. degrees are practically the same for the first two years and are mainly of a basic or general character. During the last two years, or earlier, the student is required to specialize, or major, in a

field of study and to choose his minor study, subject to the approval of the head of the department of his major subject and the dean of the School. If he majors in language (English, French, Spanish, etc.), or social science (history, economics, sociology, etc.), or fine arts (art, music, etc.), he is awarded the B.A. degree on completion of the curriculum. If he majors in science (biology, chemistry, mathematics, etc.), he is awarded the B.S. degree. If he takes a specialized subject (such as the chemistry curriculum), he is awarded the B.S. degree in the special subject.

The curriculum for the B.A. degree or the general B.S. degree (usually called the academic, or liberal arts, curriculum) requires 130 semester hours for completion. It requires as a part of the 130 hours a major of 30 semester hours and a minor of 21 hours in a subject related to the major, leaving about 30 hours of elective courses to be completed during the last two years.

The curriculum for the B.S. degree in a special subject usually requires more work in the special subject than does the academic curriculum, and permits fewer electives, on account of the vocational use to be made of the special subject. The total number of hours required in this curriculum is somewhat more than is required in other curricula.

SUBJECTS GIVEN

The subjects given in the School of Arts and Sciences are art, biology, chemistry, English, French, history, journalism, mathematics, music, physical education, physics, political science, sociology, Spanish, and speech.

ENTRANCE REQUIREMENTS

An applicant for admission to the freshman class of the School of Arts and Sciences must have been graduated with not fewer than 15 acceptable units from a four-year course in an accredited secondary school or must attest an equivalent preparation.

Students who expect to major or minor in mathematics or in science must have completed in their high school course one unit in plane geometry and at least one and one-half units in algebra. Those intending to major in subjects other

than mathematics or science are required to have completed one year of algebra, but geometry is not required of them for entrance.

GRADUATION REQUIREMENTS

The candidate for a degree in the School of Arts and Sciences is required to complete one of the curricula given on the pages which immediately follow, and earn as many quality points as there are hours in his curriculum; and he must comply with such other college requirements as are made of all candidates for graduation.

Before choosing a curriculum he should read the foregoing paragraphs under "School of Arts and Sciences" which describe the curricula offered in this School. The student who has decided on his major will begin that curriculum which provides a major in his chosen subject. Those students who have not decided on their major should register in the Academic Curriculum inasmuch as the subjects included in it are of a basic character and are required in most college curricula.

ACADEMIC (OR LIBERAL ARTS) CURRICULUM

(LEADING TO THE B.A. OR B.S. DEGREE)

This curriculum is designed for those who desire a liberal or general education; or those who desire general preparation for the professions of law, medicine, etc.; or those who desire a broad, basic education in preparation for teaching or graduate work, later; or those who would prefer to take work toward a degree while they are making up their minds as to what vocation or profession they will enter.

Graduates on this curriculum may receive a teacher's professional certificate if they have elected enough hours in Education (including practice teaching) and Health and Physical Education to meet the state requirements.

FRESHMAN YEAR	Semester Hours
English 401, 402.....	6
Foreign language.....	6
Any two of the following three subjects; the one omitted to be taken later:	
History 401, 402;	
Mathematics 401, 402 or 405, 406;	
Science (biology 401, 402, or chemistry 407, 408).....	12 or 14
Orientation.....	1
Physical Education.....	2
Total.....	27 or 29

SOPHOMORE YEAR	Semester Hours
English 501, 502.....	6
History 501, 502 or Political Science 501, 502.....	6
Foreign language (the one already begun).....	6
Science (biology, chemistry, or physics).....	6
Physical Education.....	2
Electives.....	6
Total.....	32

*JUNIOR AND SENIOR YEARS	Semester Hours
Major subjects: enough to total for the four years.....	30
Minor subject: enough to total for the four years.....	21
Electives: enough to bring semester hours of curriculum up to a total of.....	130

TOTAL semester hours in curriculum..... 130

* Before the student enters upon the work of these last two years he must choose a major study and a minor study, subject to the approval of the head of the department in which he takes his major and of the Dean of the School of Arts and Sciences. Subjects in which the major on the Academic Curriculum may be taken are: biology, chemistry, English, French, history, journalism, mathematics, political science, sociology, Spanish, speech. For details as to the major and minor, see under the department of the major subject.

ART CURRICULUM*

(LEADING TO THE DEGREE OF BACHELOR OF ARTS IN ART)

Graduates on this curriculum may receive a teacher's professional certificate if they have elected enough hours in Education, Health and Physical Education, Mathematics, and Psychology to meet the state requirements.

FRESHMAN YEAR	Semester Hours
Freshman Orientation.....	1
English 401, 402: Composition and Rhetoric.....	6
History 401, 402: Modern European History.....	6
Foreign Language.....	6
Art 401: Art Structure.....	2
Art 411: Elementary Design.....	2
Art 450, 451: Elementary Drawing.....	4
Art 564: Art Appreciation.....	1
Art 470: Elementary Painting.....	3
Physical Education.....	2
Total semester hours.....	33

SOPHOMORE YEAR		Semester Hours
English 501, 502.....		6
Foreign Language.....		6
Biology 401, 402; or Chemistry 407, 408; or Physics 504, 505.....	6-8	
Art 510: Design.....		3
Art 550: Advanced Drawing.....		2
Art 565: Art Appreciation.....		2
Art 570: Oil Painting.....		3
Physical Education.....		2
Total semester hours.....		32
JUNIOR YEAR		Semester Hours
Social Science.....		6
Minor subject.....		6
Art 540, 541: Craft Survey.....		6
Art 666-667: Art History.....		6
Electives.....		10
Total semester hours.....		34
SENIOR YEAR		Semester Hours
Minor subject.....		6
Art 610: Advanced Design.....		3
Art 650, 651: Life Drawing.....		4
Art 670: Oil Painting.....		3
Electives in Art.....		6
Electives.....		12
Total semester hours.....		34
TOTAL semester hours in curriculum.....		132

* See also under Art Department.

BIOLOGY CURRICULUM*

(LEADING TO THE DEGREE OF BACHELOR OF SCIENCE)

Graduates on this curriculum may receive a teacher's professional certificate if they have elected enough hours in Education (including practice teaching) and Health and Physical Education to meet the state requirements.

FRESHMAN YEAR		Semester Hours
Orientation.....		1
English 401, 402.....		6
Foreign language.....		6
Biology (general) or Chemistry.....		8
Physical Education.....		2
Either History 401, 402 or Mathematics 401, 402; the one omitted to be taken later.....		6
Total.....		29
SOPHOMORE YEAR		Semester Hours
English 501, 502.....		6
History 501, 502 or Political Science 501, 502.....		6
Foreign language (the one already begun).....		6
Biology, Chemistry or Physics.....		8
Physical Education.....		2
Electives.....		4
Total.....		32
JUNIOR AND SENIOR YEARS		Semester Hours
Biology, sufficient to make a total for the four years of.....		28
Minor subject, enough to make a total of.....		21
Electives, enough to bring total for curriculum to 132.....		
TOTAL semester hours in curriculum.....		132

* See also under Biology Department.

CHEMISTRY CURRICULUM*

(LEADING TO THE B.S. DEGREE IN CHEMISTRY)

This curriculum is planned to give a broad and fundamental training in the major divisions of chemistry and their applications. The aim of the curriculum is to give the student thorough instruction by means of lectures, recitations, and laboratory practice, in the principles of inorganic, analytical, organic, physical and industrial chemistry. The modern conception of an education in chemistry includes a study of physics and a thorough knowledge of mathematics. Students who complete this curriculum will be prepared for industrial positions in chemical plants and for graduate work in the science.

FRESHMAN YEAR

First Semester		Semester Hours
English 401.....		3
Chemistry 401.....		4
Mathematics 401.....		3
Mathematics 402.....		3
Engineering 451.....		2
Freshman Orientation 401.....		1
Physical Education.....		1
Total semester hours.....		17

Second Semester

Second Semester		Semester Hours
English 402.....		3
Chemistry 402.....		4
Mathematics 501.....		5
Engineering 452.....		2
Engineering 402.....		3
Physical Education.....		1
Total semester hours.....		18

SOPHOMORE YEAR

First Semester		Semester Hours
French 401.....		3
Chemistry 515.....		3
Chemistry 605.....		3
Mathematics 600.....		3
Physics 501.....		4
Physical Education.....		1
Total semester hours.....		17

Second Semester

Second Semester		Semester Hours
French 402.....		3
Chemistry 516.....		3
Chemistry 606.....		3
Mathematics 601.....		3
Physics 502.....		4
Physical Education.....		1
Total semester hours.....		17

JUNIOR YEAR

First Semester		Semester Hours
Chemistry 707: Advanced Quantitative Analysis.....	3	
Chemistry 601: Organic Chemistry.....	5	
Chemistry 611: Introductory Physical Chemistry.....	4	
French 501.....	3	
Speech 510.....	3	
Total semester hours.....		18

Second Semester		Semester Hours
Chemistry 602: Organic Chemistry.....	5	
Chemistry 708: Advanced Quantitative Analysis.....	3	
Chemistry 612: Introductory Physical Chemistry.....	4	
English 603: Technical English.....	3	
French 503: Scientific French.....	3	
Total semester hours.....		18

SENIOR YEAR

First Semester		Semester Hours
Chemistry 701: Organic Preparations.....	2	
Chemistry 702: Qualitative Organic Analysis.....	1	
Chemistry 711: Chemical Thermodynamics.....	3	
Chemistry 713: Theoretical Electrochemistry.....	3	
Chemistry 715: History of Chemistry.....	2	
Economics 501 or Political Science 501.....	3	
**Elective.....	3	
Chemistry 716 Chemistry Seminar.....	1	
Total semester hours.....		18

Second Semester		Semester Hours
Chemistry 703: Quantitative Organic Analysis.....	2	
Chemistry 710: Colloid Chemistry.....	3	
Chemistry 714: Applied Electrochemistry.....	3	
Chemistry 717: Chemistry Seminar.....	1	
Economics 502 or Political Science 502.....	3	
Elective.....	6	
Total semester hours.....		18
TOTAL semester hours in four-year curriculum.....		141

* See also under Chemistry Department.

** Electives may be chosen from engineering, physics, chemistry, mathematics or psychology. If a student plans to teach, he should attend the summer session and take the required course in Education.

ENGLISH CURRICULUM*

(LEADING TO THE DEGREE OF BACHELOR OF ARTS)

This curriculum allows the student the choice of several minors. Thus the combination of major and minor may be English-Foreign Languages, English-Social Science, etc.

Graduates on this curriculum may receive a teacher's professional certificate if they have elected enough hours in Education (including practice teaching) and Health and Physical Education to meet the state requirements.

FRESHMAN YEAR	Semester Hours
English 401, 402.....	6
Foreign language.....	6
Any two of the following three subjects; the one omitted to be taken later:	
History 401, 402	
Mathematics 401, 402 or 405, 406	
Science (Biology 401, 402 or Chemistry 407, 408).....	12 or 14
Orientation.....	1
Physical Education.....	2
Total	27 or 29

SOPHOMORE YEAR	Semester Hours
English 501, 502.....	6
History 501, 502 or Political Science 501, 502.....	6
Foreign language (the one already begun).....	6
Science (biology, chemistry, or physics).....	6
Physical Education.....	2
Electives.....	6
Total semester hours.....	32

**JUNIOR AND SENIOR YEARS	Semester Hours
Major: English 618, 622 and enough additional English to make a total of.....	30
Minor: Enough hours in a related subject, chosen with the approval of the head of the department, to make.....	21
Electives: Enough to bring the semester hours in the curriculum up to a total of 130	
TOTAL semester hours in curriculum.....	130

* See also under Department of English and Foreign Languages.

** Before the beginning of the junior year English majors must consult the head of the department for approval of their minor subject and electives.

FRENCH CURRICULUM*

(LEADING TO THE DEGREE OF BACHELOR OF ARTS)

Students who enter Tech with high school credits in French will register as follows:

Those with *one year* of high school French will register in French 401; those with *two years* of high school French will register in French 501 (Such students cannot receive credit in French 401, 402); those with *three years* of high school French will register in French 502. (They cannot receive credit in French 401, 402 or 501.

All students in French are advised to take two years of required work in the language without any unnecessary interval between courses.

Graduates on this curriculum may receive a teacher's professional certificate if they have elected enough hours in Education (including practice teaching) and Health and Physical Education to meet the state requirements.

FRESHMAN YEAR		Semester Hours
English 401, 402.....		6
French 401, 402 (unless French was taken in high school. See note above).....		6
Any two of the following three subjects; the one omitted to be taken later:		
History 401, 402;		
Mathematics 405, 406;		
Science (Biology 401, 402 or Chemistry 407, 408).....	12 to 14	
Physical Education.....		2
Orientation.....		1
Total		27 or 29

SOPHOMORE YEAR		Semester Hours
English 501, 502.....		6
History 501, 502 or Political Science 501, 502.....		6
French 501, 502 (provided 401, 402 taken first year).....		6
Science (biology, chemistry, or physics).....		6
Physical Education.....		2
Electives (Prospective teachers take Psychology 501, 502).....		6
Total semester hours		32

**JUNIOR AND SENIOR YEARS		Semester Hours
Major: French 600, 601, 602, 620, 621, 700.....		18
Minor: Enough hours in a related subject, chosen with the ap- proval of the head of the department, to make a total of.....		21
History 609.....		3
Art 564.....		2
Music 630.....		2
Electives: Enough to make the total semester hours for the curriculum.....	130	
TOTAL semester hours in curriculum		130

* See also under Department of English and Foreign Languages.

** Before the beginning of the junior year majors in French must consult the head of the department for approval of their subject and electives.

HEALTH AND PHYSICAL EDUCATION CURRICULUM FOR MEN*

(LEADING TO THE DEGREE OF B.S. IN PHYSICAL EDUCATION)

FRESHMAN YEAR		Semester Hours
Freshman Orientation.....		1
English 401, 402.....		6
Mathematics 401, 402; or 405, 406.....		6
Biology 401, 402.....		8
Physical Education 401, 402, or 405, 406 and 410.....		6
Electives (related to teaching field).....		3
Total semester hours		30

SOPHOMORE YEAR		Semester Hours
English 501, 502.....		6
Psychology 501, 502.....		6
Physical Education 501, 502; 503, 504.....		4
Electives.....		16
Total semester hours		32

JUNIOR YEAR		Semester Hours
Biology 620, 625.....		6
Education 605, 606.....		6

Speech 510.....	3	
Physical Education 408, 508, 603, 604, 605, 612, 620, 621.....	16	
Electives.....	3	
Total semester hours.....		34
SENIOR YEAR		
Journalism 601.....	3	
Education 708, 709.....	8	
Physical Education 705, 623, 702.....	10	
Electives.....	15	
Total semester hours.....		34
TOTAL semester hours in curriculum.....		132
* See also under Health and Physical Education Department for Men.		

HEALTH AND PHYSICAL EDUCATION CURRICULUM FOR WOMEN*

(LEADING TO THE DEGREE OF B.S. IN PHYSICAL EDUCATION)

FRESHMAN YEAR

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
English 401.....	3	English 402.....	3
Biology 401.....	4	Biology 402.....	4
Mathematics.....	3	Mathematics.....	3
Physical Education 403.....	1	Physical Education 404.....	1
Physical Education 550M.....	1	Physical Education 540M.....	1
Orientation 401.....	1	Electives.....	3
Electives.....	2		
	15		15

SOPHOMORE YEAR

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
English 501.....	3	English 502.....	3
History 401.....	3	History 402.....	3
Physics 505.....	3	Physics 506.....	3
Psychology 501.....	3	Psychology 502.....	3
Physical Education 503.....	1	Physical Education 504.....	1
Physical Education 530.....	1	Physical Education 421.....	1
Electives.....	2	Electives.....	2
	16		16

JUNIOR AND SENIOR YEARS

	S.H.		S.H.
Education 605-606.....	6	Physical Education 520.....	2
Biology 620-625.....	6	Physical Education 521.....	2
Home Economics 501.....	2	Physical Education 621.....	1
Speech 510.....	3	Physical Education 601-603.....	5
Art 564.....	2	Physical Education 640-650M.....	5
Music 630.....	2	Physical Education 605-626.....	3
Sociology 501.....	3	Physical Education 660.....	3
Education 708-709.....	8	Electives (Physical Education).....	3
Political Science 501 or 603.....	3		
Electives.....	10		27
	45		

TOTAL semester hours in curriculum.....132

* See also under Health and Physical Education Department for Women.

JOURNALISM CURRICULUM*

(LEADING TO THE DEGREE OF BACHELOR OF ARTS)

Graduates on this curriculum may receive a teacher's professional certificate if they have elected enough hours in Education (including practice teaching) and Health and Physical Education to meet the state requirements.

FRESHMAN YEAR		Semester Hours
Orientation.....		1
English 401, 402.....		6
Any two of the following three subjects; the one omitted to be taken later:		
History 401, 402;		
Mathematics 401, 402 or 405, 406;		
Science (Biology 401, 402 or Chemistry 407, 408).....	12 or 14	
Physical Education.....		2
Foreign language.....		6
Total		27 or 29

SOPHOMORE YEAR		Semester Hours
English 501, 502.....		6
History 501, 502 or Political Science 501, 502.....		6
Foreign language (the one begun the first year).....		6
Physical Education.....		2
Science (biology, chemistry or physics).....		6
Electives (Prospective teachers elect Psychology 501, 502).....		6
Total		32

**JUNIOR AND SENIOR YEARS		Semester Hours
Major: Enough Journalism to make a total of.....		30
Minor: Subjects related to Journalism, chosen with the approval of head of department and dean.....		21
Electives: Enough to bring total hours in curriculum to 130		
TOTAL semester hours in curriculum.....		130

* See also under Journalism Department.

** Students must consult the head of the department before the end of the sophomore year regarding their program of studies for the junior and senior years.

MATHEMATICS CURRICULUM*

(LEADING TO THE DEGREE OF BACHELOR OF SCIENCE)

Graduates on this curriculum may receive a teacher's professional certificate if they have elected enough hours in Education (including practice teaching) and Health and Physical Education to meet the state requirements.

FRESHMAN YEAR		Semester Hours
Orientation.....		1
English 401, 402.....		6
Foreign language.....		6
Mathematics 401, 402.....		6
Physical Education.....		2
Either one of the following subjects; the one omitted to be taken later:		
History 401, 402;		
Science (Biology 401, 402 or Chemistry 407, 408).....	6 or 8	
Total		27 or 29

SOPHOMORE YEAR		Semester Hours
English 501, 502.....	6	
History 501, 502 or Political Science 501, 502.....	6	
Foreign language (the one begun the first year).....	6	
Science (Physics, Chemistry or Biology).....	6	
Mathematics: two courses of the three, 403, 501, 502 the one omitted to be taken later.....	6	
Physical Education.....	2	
Total		32

JUNIOR AND SENIOR YEARS		Semester Hours
Major subject: Enough mathematics to make a total of.....	30	
Minor subject: Enough in a subject related to mathematics to make a total of.....	21	
Electives: Enough to make a total of 130 hours in the curriculum		
TOTAL semester hours in the curriculum.....		130

* See also under Mathematics Department.

MUSIC CURRICULUM*

(LEADING TO THE DEGREE OF BACHELOR OF MUSIC)

This curriculum is intended for those wishing to become highly proficient performers in voice, on piano, or on an instrument of the band or orchestra.

At the time of entrance the student will declare whether he is primarily interested in studying piano, voice, or an instrument of the band and orchestra. The appropriate courses in applied music in each instance will then be recorded on the student's Advisory Sheet in the Music Department office. Should the student wish to certify for a Teacher's Certificate, it will be necessary for him to take in addition the required courses in professional education as specified by the State Department of Education, and to attend the Music Education Seminar.

Those piano majors pursuing the curriculum below who wish to be a certified private piano teacher in Louisiana according to standards of the State Department of Education must add the following courses to their curriculum:

Class Piano Methods and Practice Teaching. (Music Education 762-763), four semester hours; and Piano Pedagogy and Materials (Music Education 662), two semester hours.

FRESHMAN YEAR		Semester Hours
English 401, 402.....	6	
Orientation.....	1	
Foreign Language.....	6	
Theory 410, 411.....	6	
Applied Music.....	10	
Ensemble.....	2	
Total		31

SOPHOMORE YEAR		Semester Hours
English 501, 502.....	6	
Physical Education.....	2	
Foreign Language (one begun first year).....	6	
Theory 501, 502.....	6	
Applied Music.....	10	
Ensemble.....	2	
Total.....		32

JUNIOR YEAR		Semester Hours
Theory 601, 602.....	6	
Applied Music.....	10	
History and Appreciation of Music 620, 621.....	6	
Conducting.....	2	
Free Electives (Music).....	6	
Ensemble.....	2	
Physical Education.....	2	
Total.....		34

SENIOR YEAR		Semester Hours
Social Science.....	6	
Electives (Academic).....	6	
Theory (Electives).....	6	
Applied Music.....	6	
Orchestration 712.....	3	
Elective (Music).....	5	
Ensemble.....	2	
Total.....		34
TOTAL semester hours in curriculum.....		131

* See also under Department of Music.

MUSIC MAJORS CURRICULUM*

(LEADING TO THE DEGREE OF BACHELOR OF ARTS IN MUSIC)

After completing the curriculum below the graduate will be eligible for certification from the State Department of Education to teach band, orchestra, or vocal work in the schools, depending upon the particular applied music elected during the course. Upon entrance the student will declare the particular certification desired and the appropriate courses will then be entered upon his advisory sheet in the Music Department office.

FRESHMAN YEAR		Semester Hours
English 401, 402.....	6	
Physical Education.....	2	
Orientation.....	1	
Foreign Language.....	6	
Theory 410, 411.....	6	
Applied Music.....	6	
Ensemble.....	2	
Total.....		29

SOPHOMORE YEAR		Semester Hours
English 501, 502.....	6	
Foreign Language (one begun first year).....	6	
Electives (Academic).....	6	
Theory 501, 502.....	6	
Applied Music.....	6	
Ensemble.....	2	
Total.....		32
JUNIOR YEAR		Semester Hours
Psychology 501, 502.....	6	
Physical Education.....	3	
Education 605, 606.....	6	
Theory 601, 602.....	6	
Applied Music.....	2	
Ensemble.....	2	
Music Education 660 (for vocal majors only).....	2	
Applied Music Electives (for instrumental majors only).....	2	
Music Education 760.....	3	
Conducting 720.....	2	
Total.....		34
SENIOR YEAR		Semester Hours
Education 708, 709.....	8	
Physical Education.....	4	
Theory Electives.....	6	
Orchestration 712.....	3	
Applied Music.....	4	
Music Education 774, 775.....	2	
Free Elective (Music).....	2	
Total.....		35
TOTAL semester hours in curriculum.....		130

* See also under Department of Music.

MUSIC CURRICULUM FOR TEACHERS AND SUPERVISORS OF VOCAL AND INSTRUMENTAL SCHOOL OF MUSIC*

(LEADING TO THE DEGREE OF BACHELOR OF MUSIC)

The Music Department faculty strongly recommends that students who pursue this curriculum take additional academic work in order to enhance their general culture. To graduate from this curriculum, the candidate must convince the faculty of his superior personal qualifications as well as versatility in music. More is required than merely meeting the credit requirements for graduation.

After completing this curriculum, the graduate is eligible for state certification as a teacher of band, orchestra, or vocal music in the schools.

FRESHMAN YEAR		Semester Hours
English 401, 402.....	6	
Physical Education.....	2	
Orientation.....	1	
Theory 410, 411.....	6	

Voice 452, 453.....	4
Piano 452, 453.....	4
Major instrument 452a, 453a.....	4
Ensemble.....	2
Total.....	29

SOPHOMORE YEAR

Speech 410.....	3
Physical Education.....	2
Psychology 501, 502.....	6
Theory 501, 502.....	6
Voice 552, 553.....	4
Piano 552, 553.....	4
Major instrument 552a, 553a.....	4
Minor instrument.....	2
Ensemble.....	2
Total.....	33

JUNIOR YEAR

Education 605, 606.....	6
Theory 601, 602.....	6
Voice 652, 653.....	4
Music Education 660, 760.....	5
Conducting 720.....	2
Major instrument 450b, 451b.....	6
Minor instruments.....	4
Ensemble.....	2
Total.....	35

SENIOR YEAR

Physical Education.....	5
Music 620, 621.....	6
Education 708, 709.....	8
Theory (Electives).....	6
Music Education 774, 775.....	2
Orchestration 712.....	3
Major instrument 552b.....	2
Ensemble.....	2
Total.....	34
TOTAL semester hours in curriculum.....	131

* See also under Department of Music.

PRE-LAW CURRICULUM

Students intending to study law would do well to complete a degree before entering law school. Those who cannot do so should follow the curriculum given below.

After completing the requirements for the LL. B. degree in an approved law school, the student who has previously finished this three year pre-law curriculum may receive the B.A. degree at Louisiana Polytechnic Institute provided the usual academic standards have been maintained.

FRESHMAN YEAR

English 401, 402.....	6
Foreign language, French preferred.....	6
Orientation.....	1

Physical Education.....	2	
Any two subjects of the following three; the one omitted to be taken later:		
History 401, 402;		
Mathematics 405, 406;		
Science (Biology 401, 402 or Chemistry 407, 408).....	12 to 14	
Speech 410.....	3	
Total		30 to 32

SOPHOMORE YEAR

	Semester Hours
English 501, 502.....	6
History 501, 502 or Political Science 501, 502.....	6
Foreign language (the one already begun).....	6
Science (biology, chemistry, or physics).....	6
Physical Education.....	2
Electives.....	6
Total	32

JUNIOR YEAR

	Semester Hours
Enough hours in commerce, economics, English and social science, chosen with the approval of the dean, to make a total of at least.....	34

PRE-MEDICAL CURRICULUM

This curriculum has been planned to meet the entrance requirements of approved medical schools. However, students who have already chosen the medical school they will enter should confer with the dean from time to time so that if necessary this curriculum may be adjusted to the specific entrance requirements of that medical school.

After completing the requirements for the M.D. degree in an approved medical school, the student who has previously finished this three-year pre-medical curriculum may receive the B. S. degree at Louisiana Polytechnic Institute provided the usual academic standards have been maintained.

FRESHMAN YEAR

	Semester Hours
Chemistry 401, 402.....	8
English 401, 402.....	6
Mathematics 401, 402; or 405, 406.....	6
Biology 401, 402.....	8
Orientation.....	1
Physical Education.....	2
Total semester hours.....	31

SOPHOMORE YEAR

	Semester Hours
*French 401, 402.....	6
English 501, 502.....	6
Chemistry 515, 516.....	6
Chemistry 605, 606.....	6
Speech 410.....	3
Physical Education.....	2
Biology 502.....	5
Total semester hours.....	34

**JUNIOR YEAR		Semester Hours
French 501, 503.....		6
Chemistry 601, 602.....		10
Psychology 501, 502.....		6
Economics 501, 502; Political Science 501, 502; or Sociology 501, 502.....		6
Physics 501, 502.....		8
Total semester hours.....		36

* Students who present two units of high school French will register for French 501.

** Pre-medical students should consult the dean before they enter on work of the junior year.

SOCIAL SCIENCE CURRICULUM*

(LEADING TO THE DEGREE OF BACHELOR OF ARTS)

Graduates on this curriculum may receive a teacher's professional certificate if they have elected enough hours in Education (including practice teaching) and Health and Physical Education to meet the state requirements.

FRESHMAN YEAR		Semester Hours
Orientation.....		1
English 401, 402.....		6
History 401, 402.....		6
Foreign language.....		6
Either one of the following two subjects; the one omitted to be taken later:		
Mathematics 401, 402 or 405, 406;		
Science (biology or chemistry).....		6 or 8
Physical Education.....		2
Total.....		27 or 29

SOPHOMORE YEAR		Semester Hours
English 501, 502.....		6
History 501, 502.....		6
Foreign language (the one already begun).....		6
Science (biology, chemistry, or physics).....		6
Physical Education.....		2
Electives.....		6
Total.....		32

**JUNIOR AND SENIOR YEARS		Semester Hours
Major Subject (History, Political Science, or Sociology) enough to make a total of.....		30
Minor Subject (a subject related to the major subject) enough to make a total of.....		21
Electives: Enough to bring hours in curriculum up to a total of.....		130
TOTAL semester hours in curriculum.....		130

* See also under Social Science Department.

** Those who plan to major in social science should consult the head of the department before the end of the sophomore year in order that the program of work of the junior and senior years may be planned and approved.

SPANISH CURRICULUM*

(LEADING TO THE DEGREE OF BACHELOR OF ARTS)

Students who enter Tech with high school credits in Spanish will register as follows:

Those with *one year* of high school Spanish will register in Spanish 401; those with *two years* will register in Spanish 501 (Such students cannot receive credit for Spanish 401, 402); those with *three years* will register in Spanish 502. (They cannot receive credit for Spanish 401, 402, or 501).

All students in Spanish are advised to complete a year's sequence without any time interval between courses, or to take two years of work in one language without any unnecessary interval between courses.

Graduates on this curriculum may receive a teacher's professional certificate if they have elected enough hours in Education (including practice teaching) and Health and Physical Education to meet the state requirements.

FRESHMAN YEAR		Semester Hours
English 401, 402	.....	6
Spanish 401, 402 (unless Spanish was studied in high school. See note above)	.....	6
Orientation	.....	1
Physical Education	.....	2
History 401, 402; Mathematics 405, 406; Science (Biology 401, 402 or Chemistry 407, 408) Any two subjects; the one omitted to be taken later	.....	12 to 14
Total semester hours	.....	27 to 29
SOPHOMORE YEAR		Semester Hours
English 501, 502	.....	6
History 501, 502 or Political Science 501, 502	.....	6
Spanish 501, 502 (provided Spanish 401, 402 taken first year)	.....	6
Science (biology, chemistry or physics)	.....	6
Physical Education	.....	2
Electives (Prospective teachers take Psychology 501, 502)	.....	6
Total semester hours	.....	32
**JUNIOR AND SENIOR YEARS		Semester Hours
Major: Spanish 601, 602, and 12 hours numbered 600 or above.	.....	18
Minor: A related subject chosen with the approval of the head of the department	.....	21
English 618	.....	3
(Note: If English 618 is taken as part of a minor, substitute another three-hour English course).	.....
Art 564	.....	2
Music 630	.....	2
Electives: Enough to complete the curriculum of 130 hours.	.....
TOTAL semester hours in curriculum	.....	130

* See also under Department of English and Foreign Languages.

** Before the beginning of the junior year Spanish majors must consult the head of the department for approval of their minor subject and electives.

SPEECH CURRICULUM*

(LEADING TO THE DEGREE OF BACHELOR OF ARTS)

Graduates on this curriculum may receive a teacher's professional certificate if they have elected enough hours in Education (including practice teaching) and Health and Physical Education to meet the state requirements.

FRESHMAN YEAR		Semester Hours
Orientation.....		1
English 401, 402.....		6
Foreign language.....		6
Physical Education.....		2
History 401, 402; mathematics 405, 406; science (Biology 401, 402 or Chemistry 407, 408) Any two subjects (the one omitted to be taken later).....		12 to 14
Total semester hours.....		27 to 29

SOPHOMORE YEAR		Semester Hours
English 501, 502.....		6
History 501, 502 or Political Science 501, 502.....		6
Foreign language (the one begun the first year).....		6
Physical Education.....		2
Science (biology, chemistry or physics).....		6
Speech 410, 511.....		6
Total semester hours.....		32

**JUNIOR AND SENIOR YEARS		Semester Hours
Major subject: Enough Speech courses to make a total of.....		30
Minor: A related subject chosen with the approval of the head of the department.....		21
Electives: Enough to bring the semester hours in curriculum to 130		
TOTAL semester hours in curriculum.....		130

* See also under Department of English and Foreign Languages.

** Before the beginning of the junior year Speech majors must consult the head of the department for approval of their minor subject and electives.

Department of Art

F. ELIZABETH BETHEA, ASSOCIATE PROFESSOR AND HEAD OF THE DEPARTMENT.
ASSOCIATE PROFESSOR, MARY MOFFETT; ASSISTANT PROFESSOR, LOUISE SMITH.

REQUIREMENT FOR A MINOR IN ART (For students in other departments)

Students from other departments who desire a minor in art are required to take twelve semester hours of advanced courses in Art, including Art 540-541, 610, 666 and 667, and in addition to Art 401, 411, 470, 450, 451, 510, 550, and 564.

Any student in the college may elect any course or courses for which he is eligible. The election of such courses must be with the approval of the head of the department in which he is registered, the head of the Department of Art, and the dean of the school in which the student is registered.

Art 402 and Art 501 are open to students in the School of Education only.

Art 475 is open to students in the School of Home Economics only.

Credit for Art 564 will not be given to students who expect to receive credit for Art 401 and 402 or Art 401 and Art 475.

DESCRIPTION OF COURSES

ART 401: *Art Structure*. Two hours. First semester. (Staff)

An elementary course designed as a foundation for all art study. Theory and practice in the elements of art as a basis for appreciation of the fine arts and crafts of the past and present. Lectures illustrated with slides, prints, and objects; field trips; laboratory.

ART 402: *Art Structure for Students in Education*. Two hours. Second semester. Prerequisite, Art 401. (Brown, Smith)

A continuation of the study of the theory and practice in the elements and principles of art structure. Problems in drawing, painting, design, lettering, poster composition.

Brief introduction to recent developments in teaching art activity in elementary grades. Lectures, discussions, reports, laboratory.

ART 411: *Elementary Design*. Two hours. Second semester. Prerequisite, Art 401. (Smith)

A continuation of the study of the theory and practice in the elements and principles of art structure. Formal problems in design and color. Pictorial composition, lettering and posters. Lectures, discussions, reports, laboratory.

ART 450: *Elementary Drawing*. Two hours. First semester. (Moffet)

A study of the principles underlying all creative and representative drawing with the application of those principles to sketching from still-life, landscape, and figure. Problems involving the use of one, two, and three point perspective. Freedom and ease in drawing combined with an observance of the principles of art structure. Independent studies of action figures, hands, feet, and head, submitted weekly.

ART 451: *Elementary Drawing*. Two hours. Second semester. Prerequisite, Art 450. (Moffett)

A continuation of Art 450 with more advanced problems in drawing from still-life and figure. Field trips for sketching out-of-doors during the second half of semester. Independent studies of plant, tree and landscape forms submitted weekly.

ART 470: *Elementary Water Color Painting*. Three hours. Second semester. Prerequisite, Art 401. (Bethea)

Technique of water color painting accompanying drawing and design of concurrent courses. Submission of two independent sketches weekly for conference. Class periods devoted to the problems involved in painting the approved compositions.

ART 475: *Art Structure for Students in Home Economics*. Two hours. Second semester. Prerequisite, Art 401. (Bethea, Moffett, Smith)

A continuation of the study of the theory and practice in the elements and principles of art structure. Problems sup-

plementary to the work in Home Economics, applying fundamentals of art structure to costume design, problems of home and community life. Experiments with various media. Lectures, discussions, field trips, laboratory.

ART 501: *Art 402 continued*. Two hours. Prerequisite, Art 402. (Smith)

A continuation of Art 402 with emphasis on craft materials and their use in the elementary grades. Problems in working out ways in which art activities contribute to the social studies; practice in planning units of study with reference to the use of art activities in reading, literature, science, etc. Lectures, reports, laboratory, observations.

ART 510: *Design*. Two hours. Second semester. Prerequisites, Art 402, Art 411, or Art 475. (Moffett)

Problems in design involving the application of abstract, geometric, and conventionalized motifs used singly and in repetition. Emphasis of fine line, dark and light, and color. Experimentation with a variety of media and techniques. Research problems in historic ornament. Lectures, reports, laboratory.

ART 540 and 541: *Craft Survey*. For each, three hours. Prerequisite, Art 402 or 411 or 475. (Bethea, Smith)

Survey of the elementary processes of weaving, metal crafts, ceramics and wood-carving as a basis for advanced study in one or more of these media.

ART 550: *Advanced Drawing*. Two hours. First semester. Prerequisite, Art 451. (Moffett)

More advanced problems in drawing. Similar in aim and content to Art 451, with the addition of problems in mechanical drawing involving the use of drawing tools. Plans, elevations, and perspective projections, with emphasis upon the elements of good design in architecture and interior decoration. Experimentation with a variety of medial and drawing techniques.

ART 564: *Art Appreciation*. Two hours. First and second semesters. (See note above). (Moffett)

An introduction to the study and enjoyment of art in its various expressions. Through abundant illustrative ma-

terial the course aims to establish a few fundamental principles for critical judgement. The topics discussed in the lectures cover art in dress, in the home, furniture, textiles, pottery, painting, the graphic arts and civic art. No previous knowledge of art is required. One independent project is required demonstrating the relationship of art to the student's major field. Two meetings weekly.

ART 564 A: *For Freshman Art Majors*. One hour. Identical lectures and readings but no independent project required. Two meetings weekly.

ART 564 C: *Art and Commerce*. Three hours. Identical lectures, readings, and independent project. Special emphasis on dress for business offices and art service for commerce in display and advertising. Three meetings weekly.

ART 565: *Picture Study*. Two hours. Second semester. Given alternate years. (Offered 1943-1944). (Bethea)
An introduction to the appreciation of the modern schools of painting with especial emphasis on those of Europe and the United States. Notes prepared in the library and illustrated by prints.

ART 570: *Oil Painting*. Three hours. Second semester. (Bethea)

A course similar in aim and method to Art 470.

ART 610: *Advanced Design*. Three hours. Prerequisite, Art 510. First semester. (Not offered 1943-1944). (Bethea)

The application of the principles of art structure to the crafts, book decoration, graphic illustration, and advertising. The study of printing processes and methods of reproduction.

ART 640: *Metal Working*. Three hours. Prerequisite, Art 541. Given alternate years. (Offered 1943-1944). (Bethea)

The execution of jewelry in silver and gold and of bowls, book-ends, flat ware and the like, in copper, brass, pewter, and silver, using original designs.

ART 644: *Weaving*. Three hours. First semester. Given alternate years. (Not offered 1943-1944). Prerequisite, Art 541. (Smith)

Advanced problems in weaving on the following looms: two and four harness (table and foot types), Indian, Hungarian, et cetera. Emphasis is placed on a thorough understanding of the fundamentals of weaving to insure ability for independent work in this medium. Class restricted to fifteen students.

ART 646: *Ceramics*. Three hours. Second semester. Given alternate years. (Not offered in 1943-1944). Prerequisite, Art 541. (Smith)

An advanced course in pottery-making, including coiling, pressing, modeling and glaze techniques with special emphasis upon various decorative processes peculiar to ceramic art.

ART 650 and 651: *Life Drawing*. For each, two hours. Prerequisite, Art 550. Given in alternate years. (Offered 1943-1944). (Moffett)

In the first semester, practice in drawing from the head and figure using costumed models. Modeling of the head and figure in clay. In the second semester, advanced practice in drawing and painting the head and figure singly and in groups, with emphasis upon the principles of arrangement.

ART 655: *Housing*. Three hours. Prerequisite, Art 451. Given in alternate years. (Not offered 1943-1944.) (Moffett)

Advanced problems in the study of plans and elevations of exteriors and interiors of houses. Special emphasis is placed upon the development of domestic architecture and concomitant design in the South.

ART 660: *Teaching of Fine Arts*. Three hours. Prerequisite, Junior standing in major subject. First semester. Given alternate years. (Not offered 1943-1944).

The planning of a course of art and the methods of presentation of such a course in the elementary and high schools. Practice in many of the techniques to be used.

ART 666 and 667: *History of Art*. For each, three hours. First and second semesters. Given alternate years. (Not offered 1943-1944). (Bethea)

A brief survey of the painting, sculpture, architecture and minor arts of ancient, medieval and modern periods. Notes prepared in the library and illustrated by prints

ART 670: *Oil Painting*. Three hours. First semester. Given alternate years. (Offered 1943-1944) (Bethea)

More advanced problems in painting with specific relation to the various points of view and the technical means of accomplishing them. Unlimited choice of subject matter.

ART 675: *Portrait Painting*. Three hours. Second semester. Given alternate years. (Offered 1943-1944.) (Bethea)

Advanced practice in painting the head and figure using water color and oil.

ART 740: *Studio Problems*. Two hours. First and second semesters. Prerequisites, Art 640, 644, or 646.

An elective course in advanced crafts. (This may be elected after a conference and with the approval of the Art Staff).

ART 741: *Studio Problems*. Two hours. First and second semesters. Prerequisite, Art 651 or 670 or 610.

An elective course in advanced drawing, painting or design. (This may be elected after a conference and with the approval of the Art Staff).

Department of Biological Sciences

J. R. FOWLER, PROFESSOR AND HEAD OF THE DEPARTMENT
ASSOCIATE PROFESSOR M. H. FOLK; ASSISTANT PROFESSORS F. L. AFEMAN,
R. M. PULLIG, W. E. SNYDER,* S. M. WEATHERSBY; INSTRUCTOR
J. L. STEWART*

REQUIREMENTS FOR A MAJOR IN BIOLOGY

Students intending to major in Biology are required to follow the Biology curriculum. During the second semester of their sophomore year (and later as may be necessary) they are required to consult the Head of the Department for directions as to their major and minor courses of study during their junior and senior years.

Major: A minimum of twenty-eight semester hours (18 of which must be advanced courses) is required for a major in Biology. Courses which have been taken during the freshman and sophomore years shall count in fulfillment of this requirement. Biology 401 and 402 are required and enough additional courses are to be chosen from the following list to complete the requirements: Biology 403, 501, 502, 510, 511, 520, 521, 610, 611, 620, 625, 630, 650, 660. It is required of those majors who are qualifying to teach to elect either 501 or 502 and either 520 or 521. Also majors are required to complete at least 12 semester hours of chemistry and six semester hours of physics.

Minor: Students majoring in biology are also required to choose a minor (of at least twelve hours of advanced courses) in a related field and schedule the courses necessary to satisfy the requirements of the department in which the minor is chosen.

REQUIREMENTS FOR A MINOR IN BIOLOGY
(For students in other departments)

Students electing biology as a minor are required to follow the same requirements as for the major; except a minimum of twenty hours is required instead of twenty-eight.

Those students who desire to qualify for positions as laboratory technicians for hospitals, clinics, and private clinics, and also for high school clinics if and when they are

* On leave for military service.

Biol

established, may do so by electing the following subjects for their minor in biology: Biology 401, 640, 641, 642, 643; and 644. After Biology 401, these courses may be taken in any sequence so that it will be possible for students to work them into their regular curriculum.

It is thought that students majoring in secretarial work in commerce, home economics, and physical education may wish to qualify themselves for two positions instead of one by taking these subjects which will amount to a minor in Biology.

DESCRIPTION OF COURSES

BIOLOGY 401: *Animal Biology*. Four hours. First semester. (Staff)

An introductory course designed to acquaint the student with the fundamental facts and principles of animal biology as obtained from a series of representative forms of the animal kingdom. Three hours lecture and three hours laboratory per week.

BIOLOGY 402: *Plant Biology*. Four hours. Second semester. (Staff)

An introductory course designed to acquaint the student with the facts and principles of plant biology. The subject matter of this course is dealt with similarly to that of animal biology and an effort is made to correlate it with the course in animal biology. Three hours lecture, and three hours laboratory per week. Biology 401, 402 are required to satisfy a unit in general biology. Exception is made for Home Economic majors who take Biology 403.

BIOLOGY 403: *Bacteriology*. Three hours. First and second semesters. Prerequisite, Biology 401 or 402. (Folk)

The purpose of this course is to present the phases of bacteriology that will be of most importance to the teacher of Home Economics and have an important relation to home life. Two hours lecture and three hours laboratory per week. (This course is open to other than Home Economics students with permission of the instructor).

BIOLOGY 500: *Health Education*. Two hours. First and second semesters. (Fowler)

This course is designed for those students who have not satisfied the prerequisite for Biology 620 and especially for those students who wish only two hours in health education to meet the Physical Education requirements set up by the State Board of Education for certification to teach.

This is an elementary course in which a study is made of personal hygiene and healthful living. It is not open to majors in the Biology Department. Two hours lecture per week.

BIOLOGY 501: *Invertebrate Zoology*. Four hours. First semester. Prerequisite, Biology 401. (Weathersby)

The student is introduced into a somewhat extensive study of representative types of invertebrates, their structures, ecology, life histories, and economic importance. Three hours lecture and three hours laboratory per week.

BIOLOGY 502: *Vertebrate Zoology*. Four hours. Second semester. Prerequisite, Biology 401. (Weathersby)

This course is designed to acquaint the student with the representative forms of vertebrates, their comparative structure, life histories, ecology, and economic importance. Three hours lecture and three hours laboratory per week.

BIOLOGY 510: *General Entomology*. Three hours. First semester. Prerequisite, Biology 401. (Afeman)

The student is introduced into a somewhat extensive survey of the Phylum Arthropoda in which special emphasis is placed upon the great class Insecta. Their classification, life histories, habits and relationship with other animals are considered. Two hours lecture and three hours laboratory per week.

BIOLOGY 511: *Economic Entomology*. Three hours. Second semester. Prerequisite, Biology 401. (Afeman)

This course is designed to give the student detailed information about those groups of Arthropods which are of particular interest to the home, garden, farm forest. Their structures, life histories, habits, economic importance, and methods of control are considered. Two hours lecture and three hours laboratory per week.

BIOLOGY 520: *Plant Physiology and Anatomy*. Three hours. First semester. Prerequisite, Biology 402. (Snyder)

A study of plant tissues, plant structures, their functions, and the life processes of plants. Two hours lecture and three hours laboratory per week.

BIOLOGY 521: *Advanced Botany and Taxonomy*. Three hours. Second semester. Prerequisite, Biology 402. (Snyder)

The principles of classification and nomenclature and their application to selected plant groups. Also, a study of the relations of plants to each other and to their environment. One hour lecture and six hours laboratory per week.

BIOLOGY 610: *Genetics and Eugenics*. Three hours. First semester. Prerequisites, Biology 401, 402. (Fowler)

This course deals with the fundamental laws of inheritance, their application to plant and animal breeding, and to man. Three hours lecture per week.

BIOLOGY 611: *General Embryology*. Three hours. Second semester. Prerequisite, Biology 401. (Weathersby)

This course includes a study of the structure, maturation and fertilization of the germ cells, and early development of the invertebrate and vertebrate animals. Two hours lecture and three hours laboratory per week.

BIOLOGY 620: *Personal and Community Hygiene and Sanitation*. Three hours. First and second semesters. Prerequisite, Biology 401. (Fowler)

This course combines former Biology 600, (*Personal Hygiene and Health*), with former Biology 601, (*Community Hygiene and Sanitation*). A study is made of personal hygiene and healthful living with just enough emphasis upon structure of organs and organ systems to make clear their hygiene and its importance in preventing and controlling our most common diseases. This is followed by discussions on construction and sanitary operation of institutions and plants dealing with education, food and water supply, and disposal of wastes. Three hours lecture per week.

BIOLOGY 625: *Human Anatomy and Physiology*. Three hours. First and second semesters. Prerequisite, Biology 401. (Pullig)

A study is made of the structures and functions of the

principal organs and organ systems of the human body. Emphasis will be placed upon the proper functioning of these in healthful living. This course is designed primarily for Physical Education, Education, and general Arts and Sciences students who desire more information concerning the human body in relation to health.

BIOLOGY 630: *Plant Pathology—Diseases of Plants.* Three hours. Prerequisites, Biology 401, 402. (Folk)

A general study of plant diseases, with special consideration given to the more important diseases of the cultivated plants. Three hours lecture.

THE FOLLOWING ARE LABORATORY TECHNIQUE COURSES.

BIOLOGY 640: *Clinical Pathology and Blood Chemistry.* Four hours. Prerequisite, Biology 401. (Pullig)

This course includes lectures, demonstrations, and recitations followed by practical laboratory work which serve to emphasize the more commonly used tests essential in the everyday practice of medicine. Students repeat all tests many times until they are thoroughly familiar with the procedure and have developed skill and accuracy essential in a busy laboratory. Clinical Pathology includes the metric system, cleaning and the sterilization of glassware, urine analysis, gastric analysis, milk analysis, and globulin tests on spinal fluid.

In Blood Chemistry, tests are made on venous blood for sugar, creatinine, urea nitrogen, uric acid, total nonprotein nitrogen, chlorides cholesterol, calcium, bilirubin and others. In both courses students learn to make, titrate and standardize all of the solutions used. Two hours lecture and two three hours laboratory per week.

BIOLOGY 641: *Hematology.* Four hours. Prerequisite, Biology 401. (Pullig)

Includes numerical counting of erythrocytes and leucocytes, cell counting in spinal fluid, hemoglobin estimation, color index, coagulation time, bleeding time, Ehrlich's and Schilling's differential counting, origin of blood cells, interpretation of blood pictures, studies of pathological blood such as infection, anemias, leukemia, lead poisoning, etc., counting

of blood platelets, special tests, blood grouping and subgrouping for transfusions, thick drop examination, and bone marrow studies. Two hours lecture and two three hour laboratory per week.

BIOLOGY 642: *Parasitology and Serology*. Four hours. Prerequisite, Biology 401. (Pullig)

Parasitology: Students learn to identify eggs, larvae, or adults of all the human parasites, which includes those of Protozoa, Platyhelminthes, and Nematelminthes. The life histories and method of specimen preparation are studied.

In Serology students learn to do the routine syphilitic tests and other complement fixation tests on both blood serum and spinal fluid. Two hours lecture and two three hours laboratory per week.

BIOLOGY 643: *Clinical Bacteriology*... Four hours. Prerequisite, Biology 401. (Pullig)

This course surveys the field of medical bacteriology making use of lectures, demonstrations, recitations, and animal inoculation along with practical application. The students make their own culture media, staining solutions, learn to handle cultures of pathogenic bacteria, Petri plate inoculation, differentiation of the various types, and to identify bacteria from specific diseases. Two hours lecture and two three hours laboratory per week.

BIOLOGY 644: *Histological Sectioning and Basal Metabolism*. Two hours. Prerequisite, Biology 401. (Pullig)

The purpose of Histological Sectioning is the training of tissue technicians. They learn methods of fixing, dehydration, embedding, cutting, staining, and mounting of paraffin sections, together with the methods of operating the freezing microtome. Special staining techniques are also studied.

BASAL METABOLISM

The aim of this part of the course is to teach the care and use of the basal metabolism apparatus, preparing the patient, performing the tests, calculating and reporting the results. Two three-hour laboratory periods per week.

Department of Chemistry

G. CARROLL HILMAN, PROFESSOR AND HEAD OF THE DEPARTMENT
ASSOCIATE PROFESSORS LYLE R. DAWSON, EDWARD S. JENKINS; ASSISTANT
PROFESSORS T. W. RAY JOHNSON*, CHARLES HOOPER SMITH.*

REQUIREMENTS FOR A MINOR IN CHEMISTRY

(For students in other departments)

Students from other departments who elect a minor in Chemistry should complete Chemistry 401, 402 or Chemistry 407, 408, Chemistry 515, 516. In addition, they should elect either Chemistry 601, 602, or Chemistry 605, 606.

DESCRIPTION OF COURSES

CHEMISTRY 401, 402: *General Chemistry*. For each, four hours. First and second semesters. (Staff)

CHEMISTRY 407, 408: *General Chemistry*. For each, four hours. First and second semesters. Not open to Chemistry Majors, Pre-Medical students, and students of Engineering. (Staff)

The course is planned specifically for the considerable group of students who will take no other course in physical science, and for those who are not interested in the traditional type of elementary chemistry course which is required of students majoring in chemistry. It is designed primarily for those students whose major interest lies elsewhere. Three hours of lectures and one three-hour laboratory period each week.

CHEMISTRY 515, 516: *Advanced Inorganic Chemistry*. For each, three hours. First and second semesters. Prerequisites, Chemistry 401, 402. (Hilman)

The course deals more thoroughly with the theories and principles of chemistry than is possible in an introductory course. Special attention is paid to modern advances in chemical theory. The discussion is non-mathematical, and the course is intended as a foundation for the later course in Physical Chemistry. Three lectures each week.

CHEMISTRY 520: *Organic Chemistry*. Four hours. First semester. Prerequisites, Chemistry 407, 408. Registra-

* On leave for military service.

tion for this course is confined to students of Home Economics. (Hilman)

The fundamental theories and principles of that division of chemistry which has to do with the compounds of carbon. The principles of the science are illustrated by the preparation and study of typical representatives of the saturated series. Three hours of lectures and one three-hour laboratory period each week.

CHEMISTRY 601, 602: *Organic Chemistry*. For each, five hours. First and second semesters. Prerequisites, Chemistry 605, 606. (Hilman)

The fundamental theories and principles of that division of chemistry which has to do with the compounds of carbon. The principles of the science are illustrated by the preparation and study of typical representatives of the fatty and aromatic series. Three hours of lecture and two three-hour laboratory periods each week.

CHEMISTRY 605: *Qualitative Analysis*. Three hours. First semester. Prerequisites, Chemistry 401, 402. (Jenkins, Dawson)

A course devoted to the study of systematic qualitative analysis. In the lectures and recitation work, special attention is given to the theoretical foundation of analytical chemistry. Numerous problems are required. One hour of lecture and two three-hour laboratory periods each week.

CHEMISTRY 606: *Quantitative Analysis*. Three hours. Second semester. Prerequisites, Chemistry 401, 402, and 605. (Jenkins, Dawson)

A course devoted to the study of elementary quantitative analysis. It consists of a carefully selected series of quantitative determinations, designed to give the student as wide a range as possible of typical methods of quantitative manipulations, both gravimetric and volumetric. The theory will be illustrated by solving various types of problems. One hour of lecture and two three-hour laboratory periods each week.

NOTE: All students who register for Chemistry 605, 606 will also register for Chemistry 515, 516 as a companion course.

CHEMISTRY 609, 610: *Technical Analysis*. For each, two hours. First and second semesters. Prerequisites, Chemistry 605, 606. (Jenkins, Dawson)

The analysis of water, foods, feeds, alloys, rocks, and cements. The materials analyzed vary from year to year. Two three-hour laboratory periods each week.

CHEMISTRY 611, 612: *Theoretical and Physical Chemistry*. For each, four hours. First and second semesters. Prerequisites, Chemistry 606, Physics 502, and Mathematics 601. (Dawson)

The fundamental principles of chemistry and physics are studied, with special emphasis upon the application of these in the correlation of natural phenomena. In the laboratory molecular weight determinations, and measurements of the velocity of chemical reaction, viscosity, surface tension, etc., are made. Three hours of lecture and discussion and one three-hour laboratory period each week.

CHEMISTRY 620: *Agricultural Analysis*. Three hours. First semester. Prerequisites, Chemistry 407, 408. Registration for this course is confined to students of Agriculture. (Jenkins)

The underlying theories involved in agricultural chemistry; the principles and practice of quantitative analysis of materials related to agriculture. The theory will be illustrated by solving various types of problems. One hour of lecture and two three-hour laboratory periods each week.

CHEMISTRY 630: *Theoretical and Physical Chemistry*. Four hours. Prerequisite, Chemistry 602 or 606. Calculus not required. For pre-medical students and others not majoring in chemistry or chemical engineering. (Dawson)

Classroom and laboratory study of the fundamental principles of chemistry and physics, with special reference to the application of these in the correlation of natural phenomena.

CHEMISTRY 701: *Organic Preparations*. Two hours. First semester. Prerequisites, Chemistry 601, 602. (Not offered in 1943-44).

Training in the methods of carrying out important

organic reactions for the preparation of pure compounds, using larger amounts and greater refinements than in Chemistry 601, 602. Two three-hour laboratory periods each week.

CHEMISTRY 702: *Qualitative Organic Analysis*. One hour. First semester. Prerequisite or parallel, Chemistry 701. (Not offered in 1943-44).

A laboratory study of the class reactions of carbon compounds and practice in the methods of identifying unknown substances. One three-hour laboratory period each week.

CHEMISTRY 703: *Quantitative Organic Analysis*. Two hours. Second semester. Prerequisite or parallel, Chemistry 701. (Not offered in 1943-44)

The determination of carbon, hydrogen, nitrogen, sulfur, phosphorus, and the halogens in organic substances, embodying standard methods of ultimate analysis by the use of the combustion and bomb furnaces. Two three-hour laboratory periods each week.

CHEMISTRY 707, 708: *Advanced Quantitative Analysis*. For each, three hours. First and second semesters. Prerequisites, Chemistry 605, 606. (Jenkins, Dawson)

A study of the principles of quantitative analysis and of modern analytical procedures, including certain physico-chemical methods; the analysis of carbonates, silicates, alloys, and ores. Numerous problems are required. One hour of lecture and two three-hour laboratory periods each week.

CHEMISTRY 710: *Colloid Chemistry*. Three hours. Second semester. Prerequisites, Chemistry 611, 612. (Dawson)

Lectures, recitations, and assigned readings on the preparation and properties of colloids, and practical applications of the chemistry of colloids. Three hours of lecture and discussion each week.

CHEMISTRY 711: *Chemical Thermodynamics*. Three hours. First semester. Prerequisites, Chemistry 611, 612. (Dawson)

The application of the laws of thermodynamics to chemical and chemical engineering problems; the laws of chemical

equilibrium, and the changes in free energy and entropy attending chemical and physicochemical changes. Three hours of lecture and discussion each week.

CHEMISTRY 713: *Theoretical Electrochemistry*. Three hours. First semester. Prerequisites, Chemistry 611, 612. (Dawson)

Lectures, discussions, and assigned readings on the modern theories of solutions, electrode phenomena, polarization, electrolysis, homogeneous equilibria, and heterogeneous equilibria. Three hours of lecture and discussion each week.

CHEMISTRY 714: *Applied Electrochemistry*. Three hours. Second semester. Prerequisites, Chemistry 611, 612. (Dawson)

A study of primary and secondary cells, electroplating, electrometallurgy, electroanalysis, and of the construction and operation of electric furnaces for metallurgical and non-metallurgical processes. Three hours of lecture and discussion each week.

CHEMISTRY 715: *History of Chemistry*. Two hours. First semester. Prerequisites, Chemistry 601, 602, 611, 612. (Not offered in 1943-44).

This course is intended to cover the historical development of the science. An attempt is made to give the student some knowledge of the individuality of the men whose work has resulted in the growth and development of modern Chemistry. Consideration will be given to the relation of Chemistry to other sciences during the course of its development. Two hours of lectures and recitation each week.

CHEMISTRY 716, 717: *Chemistry Seminar*. For each, one hour. First and second semesters. Prerequisite, junior standing in Chemistry or Chemical Engineering. (Not offered in 1943-44).

Assigned reading and reports on original articles in current chemical literature of French as well as English and American journals. One hour each week.

Department of English and Foreign Languages

HERBERT L. HUGHES, PROFESSOR OF ENGLISH AND HEAD OF THE DEPARTMENT

ENGLISH: PROFESSORS HERBERT L. HUGHES, H. J. SACHS; ASSOCIATE PROFESSORS MADISON HALL, FRELSEN F. SMITH, MILDRED WALKER, EUNICE COON WILLIAMSON; ASSISTANT PROFESSORS ALMA BURK, JOHN M. KAVANAUGH*; INSTRUCTORS WINNIE D. EVANS, MARY FRANCES FLETCHER.

FRENCH: ASSOCIATE PROFESSOR EUGENIA H. SMITH; INSTRUCTOR KATHLEEN DECOU THAIN.

SPANISH: ASSOCIATE PROFESSOR FRANCES O. ADAM, JR.*; ACTING ASSOCIATE PROFESSOR J. FRANK DAVIS; INSTRUCTOR KATHLEEN DECOU THAIN.

SPEECH: ASSOCIATE PROFESSOR VERA ALICE PAUL; ASSISTANT PROFESSORS ELTON ABERNATHY*, RICHARD T. FLOWERS*; ACTING INSTRUCTORS MARIE E. BRITTIN, GEORGE P. WILSON, JR.

REQUIREMENTS FOR A MAJOR IN THE DEPARTMENT

Each student who majors in the department is required to follow the curriculum for English, French, Spanish or Speech. Not later than the end of his sophomore year he must, with the approval of the head of the department, choose his major and minor study and the rest of his program of work for his junior and senior years. A major consists of 30 hours, 18 of which must be in junior and senior courses—those numbered 600 or above. A minor consists of 21 hours in a related subject.

REQUIREMENTS FOR A MINOR IN THE DEPARTMENT

(For students in other departments)

Minor in English: 21 semester hours.

Minor in French: 21 semester hours.

Minor in Spanish: 21 semester hours.

Minor in Speech: 21 semester hours.

DESCRIPTION OF COURSES

ENGLISH

All students are given a test in English when they enter Tech. Those who show marked deficiencies in grammar, spelling, punctuation, etc., are placed in sections of Freshman English which meet five times a week, instead of three, for additional drill to make up their deficiencies.

* On leave for military service.

ENGLISH 401, 402: *Freshman English—Reading, Writing, Speaking, Use of the Library*. Three hours each. English 401 is prerequisite to 402. Both 401 and 402 given every semester. Required of all students. (English Staff)

The main objective of the course is to train the student to speak and write correctly and effectively and to use books with efficiency and pleasure. The subject matter and requirements of the course are chiefly the following: study of the forms of discourse; use of the library; writing of paragraphs, themes, letters; making of outlines; precis writing; making oral and written reports; word study; reading; review of punctuation, spelling, grammar; individual conferences with the instructor. Students are classified into two divisions so that instruction may be better adapted to their particular needs.

ENGLISH 501, 502: *Sophomore English—English and American Literature*. Three hours each. Both 501 and 502 given every semester. English 402 prerequisite to 501, and 501 is prerequisite to 502. (English Staff)

This course is for the general student, and only such material is included as will serve his needs and interests. English 501 is a study of selections from only the greatest English writers, beginning with Shakespeare and ending with a survey of contemporary English literature. English 502 is a study of selections from only the major American writers, beginning with Irving and ending with a survey of contemporary American literature. By such a course of study it is intended to furnish the student with such literary backgrounds as are necessary to make him a discriminating and intelligent reader and to create in him if possible a taste for the best literature, whether of the present or past.

ENGLISH 603: *Technical English*. Three hours. Both semesters. Prerequisite, English 502. (F. Smith)

A course primarily for engineering students. A study of reports, letters, and other kinds of technical writing, and practice in writing these.

ENGLISH 608: *The Short Story*. Three hours. Second semester. (Hughes)

The technique of the short story; literary appreciation.

Opportunity given students to write the short story, but they are not required to do so.

ENGLISH 609: *Parliamentary Law*. One hour. Second semester. (Hughes)

Theory and practice in parliamentary usage; how to form and conduct organizations; how to preside, make motions, transact business, etc.; constant drill and practice illustrating the rules and principles studied.

ENGLISH 610: *The English Novel*. Three hours. First semester. Prerequisite, English 502. (Sachs)

Chief English novels and novelists from the beginning to the present.

ENGLISH 614: *English Poetry of the Nineteenth Century*. Three hours. First semester. Prerequisite, English 502. (Hughes)

A study of Romanticism and other nineteenth century literary developments, and of nineteenth century English thought; Wordsworth, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Swinburne, Rossetti, and Meredith.

ENGLISH 618: *Shakespeare*. Three hours. First semester. Prerequisite, English 502. Required of all English majors. (Hughes)

A study of selected plays. Attention to speaking Shakespeare's lines.

ENGLISH 619: *Contemporary Drama*. Three hours. Second semester. Prerequisite, English 502. (Hughes)

The chief characteristics of contemporary drama—European, English and American. Opportunity is afforded for writing plays, but playwriting is not required. Attention to the technique of the motion picture.

ENGLISH 621: *Comparative Literature*. Three hours. First semester. Prerequisite, English 502. (Hall)

A study of selected classics of foreign literature in translation, particularly those masterpieces which have influenced English literature.

ENGLISH 622: *The English Language*. Three hours. Required of English majors. (Hughes)

A study of the important aspects of English as a language in order to aid students in a better use of English through knowledge of its fundamental laws. Included in the study are language families, language fashions, slang, vocabulary, grammar, spelling, pronunciation, language psychology, correct usage, etc.

ENGLISH 625: *Contemporary English and American Poetry*. Three hours. Second semester. Prerequisite, English 502. (Hall)

A brief survey of English and American poetry of the twentieth century.

ENGLISH 627: *The American Novel*. Three hours. Second semester. Prerequisite, English 502. (Sachs)

The chief American novelists from the beginning to the present.

ENGLISH 632: *Advanced English Grammar*. Three hours. First semester. Prerequisite, English 502. Required of English majors who intend to teach English. (Walker)

An intensive study of English grammar and of the fundamentals of the teaching of English in the high schools.

NOTE:

The courses described below are not given regularly but only as the demand requires.

ENGLISH 605: *Chaucer*. Three hours. Prerequisite, English 502.

ENGLISH 606: *Advanced Composition—Exposition*. Three hours. Prerequisite, English 502.

ENGLISH 611: *The English Essay*. Three hours. Prerequisite, English 502.

ENGLISH 612: *Folk Literature*. Three hours. Prerequisite, English 502.

ENGLISH 624: *Biography*. Three hours. Prerequisite, English 502.

ENGLISH 701: *The American Mind*. Three hours. Prerequisite, English 502.

ENGLISH 703: *Literary Criticism and Aesthetics*. Three hours. Prerequisite, English 502.

ENGLISH 705: *Philology*. Three hours. Prerequisite, English 502.

ENGLISH 707: *The Philosophical Backgrounds of English and American Literature*. Three hours. Prerequisite, English 502.

FRENCH

FRENCH 401, 402: *Elementary French*. Six hours. First and second semesters. (Smith, Thain)

For beginners: Grammar, reading, pronunciation.

FRENCH 501: *Intermediate French*. Three hours. First and second semesters. Prerequisite, French 402, or two years of high school French. (Smith, Thain)

A reading course, designed to teach students to read with ease French of moderate difficulty.

FRENCH 502: *Intermediate French* continued. Three hours. Second semester. Prerequisite, French 501. Required of all majors and minors in French. (Smith, Thain)

A grammar course for those who plan to have French as a major or minor. Note that this course is a prerequisite for French 601.

FRENCH 503: *The Reading of Scientific French*. Three hours. Second semester. Prerequisite, French 501. *For science majors and pre-medical students only.* (Smith)

All reading material will be of scientific nature from French science journals and texts, with emphasis on a vocabulary which will aid in scientific research.

FRENCH 505: *Intermediate French*. Three hours. Second semester. Prerequisite, French 501. (Smith)

A reading course designed primarily for those students who do not plan to complete more than two years of French.

FRENCH 600: *Pronunciation and Conversation*. Three hours. First semester. Prerequisites, French 601, French 620, or enrollment in one of these courses. Required of all French majors. (Smith)

Conversation upon everyday topics. The aim of the course is to convert the passive vocabulary of the reading and grammar courses into an active one.

FRENCH 601: *Advanced French Grammar*. Three hours. First semester. Prerequisite, French 502, or four years of high school French. (Smith)

FRENCH 602: *The French Short Story*. Three hours. Second semester. Prerequisite, French 502 or 505, or four years of high school French. (Smith)

FRENCH 620, 621: *Survey of French Literature*. Six hours. 620 first semester; 621 second semester. Prerequisite, French 502. (Not offered in 1943-44)

FRENCH 700: *Modern French Drama*. Three hours. Second semester. Prerequisites, French 620, 621. (Not offered in 1943-44)

SPANISH

SPANISH 401, 402: *Elementary Spanish*. Six hours. First and second semesters. 401 given both semesters; 402 given both semesters. Prerequisite, freshman standing. No credit for 401 unless 402 is taken. (Davis, Thain)

Reading and grammar; pronunciation.

SPANISH 501, 502: *Intermediate Spanish*. Six hours. First and second semesters. Prerequisite, Spanish 402, two years of high school Spanish, or equivalent. 501 prerequisite to 502. (Davis, Thain)

SPANISH 601, 602: *Conversation and Composition*. Six hours. Required for major in Spanish. Prerequisite, Spanish 502, four years of Spanish in high school, or equivalent. Given in alternate years. (Not given in 1943-44). (Davis)

SPANISH 603, 604: *The Novel in Spain*. Six hours. First and second semesters. Prerequisite, Spanish 502, four years of Spanish in high school, or equivalent. (Not given in 1943-44). (Davis)

A study of the novel in Spain from the sixteenth century to modern times. Reading of outstanding examples.

SPANISH 605, 606: *The Drama in Spain*. Six hours. Prerequisite, Spanish 502, four years of Spanish in high school, or equivalent. Given in 1943-44. (Davis)

A study of the drama in Spain from the sixteenth century to modern times. Reading of representative plays.

SPANISH 607s: *The Novel of Latin America*. Three hours. Prerequisite, Spanish 502, four years of Spanish in high school, or equivalent. Given summer only. (Davis)

SPANISH 608s: *The Drama of Spanish South America*. Three hours. Prerequisite, Spanish 502, four years of Spanish in high school, or equivalent. Given in summer only. (Davis)

SPANISH 616: *Commercial Spanish*. Three hours. Prerequisite, Spanish 502 or equivalent. Given first semester 1943-44. (Davis)

SPANISH 617: *Advanced Spanish Grammar*. Three hours. Prerequisite, Spanish 502 or equivalent. Given second semester of 1943-44. (Davis)

SPEECH

SPEECH 410: *Principles of Speech*. Three hours, both semesters. Open to freshmen and sophomores. (Speech Staff)

Elementary speech training designed to meet the individual needs of the student. The aim of the course is to correct poor speech habits, develop serviceable ones.

SPEECH 511: *Principles of Speech*. A continuation of 410. Three hours. Second semester. Required of majors and minors. Prerequisite, Speech 410. (Speech Staff)

Purpose: To strengthen the speech patterns built up in the previous course. Abundant opportunity given for students to participate in group discussions, to give talks before the group, and to read orally. It is strongly advised that 511 follow 410 as closely as possible.

SPEECH 612: *Public Speaking*. Three hours. First semester. Prerequisite, Speech 410; advised, Speech 511. (Brittin)

Designed to give more advanced experience in speech composition and delivery for varied situations.

SPEECH 613: *Public Speaking*. Three hours. Second semester. Continuation of 612. Types of speech, such as oratory, radio, after-dinner, are studied and practiced. Prerequisite, 410; advised 511 and 612. (Brittin)

SPEECH 615: *The Oral Interpretation of Literature*. Three hours. First semester. Prerequisite, Speech 410. (Paul)

The purpose is two-fold: To teach students to get from the printed page the meaning that lies upon it, and to give that meaning sincerely and convincingly to the audience. The material used for interpretation will be taken from contemporary writers.

SPEECH 616: *Oral Interpretation of Literature*. Three hours. Prerequisites, Speech 410, 615. (Paul)

A continuation of Speech 615. The material used for interpretation will be mainly from English and American classics.

SPEECH 620: *Interpretation of Children's Literature*. Three hours. Second semester. Prerequisite, Speech 410. (Paul)

Arranged for grade teachers. Study of technique and practice in story telling, in oral reading of both prose and poetry, and in group reading.

SPEECH 625: *Speech Personality*. Two hours. Prerequisite, Speech 410 or equivalent.

This course is designed to give individuals seeking professional training or opportunity to gain speech skill in actual life situations, to improve personality, and develop leadership. (Brittin)

SPEECH 650: *Speech in Radio Broadcasting*. Three hours. First semester. Prerequisite, Speech 410; advised, Speech 615. (Wilson)

Fundamentals of radio speaking with practice before the microphone. Actual broadcasting experience for those qualified.

SPEECH 651: *Speech in Radio Broadcasting*. Three hours. Second semester. Continuation of 650. (Wilson)

Practice in writing and participating in special forms of radio programs.

SPEECH 700: *Acting*. Three hours. First semester. Prerequisite, Speech 410; advised, Speech 615 and 616. (Paul)

Purpose: To develop techniques for the interpretation of drama through the medium of the actor. Students will both play and direct.

SPEECH 701: *Stagecraft*. Three hours. Second semester. No prerequisite; advised, Speech 700 and Art 564. (Wilson)

Designed to develop techniques for the interpretation of drama through the media of scenery, costume, and light.

SPEECH 710: *Speech Correction*. Three hours. Second semester. Prerequisite, Speech 410. (Paul)

Especially for speech majors and elementary teachers. Study of the nature and treatment of various types of speech defects. Students registered in the course will be given some clinical experience.

SPEECH 720: *Creative Dramatics*. Three hours. (Offered only in the summer session). Prerequisite, Speech 410; advised, Speech 620. (Paul)

Planned for the elementary teacher. Consists of two hours of laboratory. Purpose: To help teachers to direct children in their dramatic expression, both in plays they make themselves and in plays that are not original.

SPEECH 750: *Discussion and Debate*. Three hours. First semester. Prerequisite, Speech 410 or equivalent; advised 511. (Brittin)

Study of the principles of argumentation and group discussion.

SPEECH 751: *Discussion and Debate* continued. Three hours. Second semester. Prerequisite, Speech 410 or equivalent; advised, 511 and 750. (Brittin)

Application of the principles studied in Speech 750 to various types of group discussion.

SPEECH 755: *Make-up*. One hour. No prerequisite. (Paul)

Study and application of principles of make-up for the stage.

DEBATE: One hour. Prerequisite, sophomore standing. Open only to students whose total load (including the debate course) is not over eighteen hours. (Brittin)

A course designed to afford practical experience in debate and other forms of forensics. Class meets twice a week. This course does not overlap the work of Speech 750 and 751 but is supplementary to it.

Department of Health and Physical Education For Men

G. B. HOGG, ASSOCIATE PROFESSOR AND HEAD OF DEPARTMENT.
ASSOCIATE PROFESSORS JOE AILLET, L. P. McLANE; ASSISTANT PROFESSOR
C. C. CROWLEY*; INSTRUCTORS J. M. WELLS, EDDIE WOJECKI.*

All men students are required by the college to complete eight semester hours of physical activities. Students who, because of physical defects, cannot take the required courses must take a restricted program of activities—(Physical Education 405-406) planned to meet the individual need of the student.

All activity courses meet five clock hours per week. Only one course may be taken at one time. A regulation gym suit is required for participation in activity courses. Each male student must have a physical examination by his family physician stating condition of heart and respiratory system.

All of those who expect to teach are required to complete the minimum of eight semester hours. The following courses will satisfy these requirements: Physical Education 401-402, 500, 501, 502, 621.

All elementary school teachers are required to complete the minimum of 12 semester hours. For men, the following courses will satisfy these requirements: Physical Education 401, 402, 500, 501, 502, 621, 640, 641.

MAJORS IN HEALTH AND PHYSICAL EDUCATION FOR MEN

Graduation for majors in physical education is based on the following conditions and requirements:

1. A total of 32 hours, and a total of 132 quality points.
2. The satisfactory completion of the requirements of preparation for teaching in two fields. Some desirable combinations in teaching majors are:

Physical Education and Science.

Physical Education and Mathematics.

Physical Education and Social Science.

Majors in Health and Physical Education are required

*On leave for military service.

to complete 40 semester hours. Required courses for men: Health and Physical Education 401, 402, 408, 500, 501, 502, 503, 508, 510, 603, 604, 620, 621, 641, 703, 704, 714, and Biology 625.

Electives for majors in Health and Physical Education: Health and Physical Education 606, 608, 612, 614, and 623.

Students majoring in Health and Physical Education should select by the beginning of the second semester of his freshman year, his second teaching field. Certain basic courses are required, and the electives should generally be concentrated on one of the following fields: Science, Mathematics or Social Science. Such concentration upon electives will prepare prospective coaches for two teaching fields. Electives should be carefully chosen after consultation with the head of the department. See also *curriculum for majors in Physical Education elsewhere in catalog.*

SEQUENCE IN SUBJECT MATTER FIELDS OF TEACHING MAJORS

Science, 27 to 30 semester hours.

Biology 401-402 or 403, 625. Chemistry 401-402, or 407-408, and Physics 504. Nine semester hours to be elected.

Mathematics with less than 2 1-2 high school credits in Mathematics, Mathematics 400, 401, 402, 501, 420, 619. Those with 2 1-2 or more credits from high school, 401, 402, 501, 420, 619. Six hours to be elected.

Social Science, 30 semester hours.

History, 401, 501-502; Political Science 501-502, 603; Sociology 501, 614; Economics 501. Three semester hours to be elected.

MINORS IN HEALTH AND PHYSICAL EDUCATION (Students in other departments)

Students who minor in Health and Physical Education for Men are required to complete 21 hours, 14 of which must be Biology 401 and 402, or 403 and 625.

DESCRIPTION OF COURSES

PHYSICAL EDUCATION 401: *First Year Gymnastics and Sports Activities.* One hour credit. Three hours instruction; two hours laboratory. (Staff)

Fundamental drills, participation, and sports activities are included in the team sports.

PHYSICAL EDUCATION 402: *First Year General Gymnastics and Sports Activities*. One hour credit. Three hours instruction; two hours laboratory. (Staff)

Fundamental drills, participation, and sports activities are included in the team sports.

PHYSICAL EDUCATION 405-406: *Corrective Physical Education*. One hour each semester. (Hogg)

This course is for those who are not able to take Physical Education 401-402 and 501-502. Emphasis will be placed on the correction of kyphosis, lordosis, scoliosis, etc.

PHYSICAL EDUCATION 408: *Tumbling, Pyramids, and Apparatus*. One hour. (Wells)

The technique and practice of progressive elementary exercise in tumbling and with heavy apparatus; elementary training in floor and parallel bar pyramids.

PHYSICAL EDUCATION 500: *Health and Safety Education*. Three hours. (McLane)

A course designed to meet the health and safety education requirements set up by the state for all teachers.

PHYSICAL EDUCATION 501: *Second Year General Gymnastic and Sport Activities...* One hour. (Staff)

Fundamental drills, participation, and sports activities are included in the team sports.

PHYSICAL EDUCATION 502: *Second Year General Gymnastics and Sports Activities*. One hour. (Staff)

Fundamental drills, participation, and sports activities are included in the team sports.

PHYSICAL EDUCATION 503: *Elementary Instruction in All Minor Sports*. One hour. Required of all majors in Physical Education. (McLane)

PHYSICAL EDUCATION 508: *Materials and Methods and Participation in Minor Sports*. Two hours. Prerequisite, Physical Education 503. (McLane)

PHYSICAL EDUCATION 510: *Introduction to Physical Education*. Two hours. Second semester. (McLane)

The course covers the organization and requirement for a comprehensive general course in Physical Education. The course is of special value in work designed to accomplish a professional orientation of Physical Education for students.

PHYSICAL EDUCATION 601: *Third Year General Gymnastics and Sports Activities*. One hour. (Staff)

Fundamental drills, participation, and sports activities are included in the team sports.

PHYSICAL EDUCATION 602: *Third Year General Gymnastic and Sports Activities*. One hour. (Staff)

Fundamental drills, participation, and sports activities are included in the team sports.

PHYSICAL EDUCATION 603: *Organization and Administration of Intramural Sports*. Two hours. Prerequisites, Physical Education 503-504. (Wells)

This course covers the organization and administration of high school and college intramural programs. The student is required to assist in the organization and administration of the intramural program at Tech.

PHYSICAL EDUCATION 604: *Organization and Administration of Intramural Sports*. Continuation of 603. Two hours. Prerequisite, Physical Education 603. (Wells)

PHYSICAL EDUCATION 606: *Principles and Practices in Football Coaching*. Three hours. Second semester. (Aillet)

The fundamentals of individual team offense and defense; training and practice; scouting and strategy; officiating.

PHYSICAL EDUCATION 608: *Principles and Practices in Baseball Coaching*. Two hours. Second semester. (Hogg)

Fundamentals: (1) throwing, batting, and fielding; (2) position play; (3) offensive and defensive team strategy; (4) training and practices; (5) officiating.

PHYSICAL EDUCATION 612: *Principles and Practices in Basketball Coaching*. Two hours. Second semester. (Staff)

Fundamentals of team offense and defense. Training and practice; scouting and strategy; officiating.

PHYSICAL EDUCATION 614: *Principles and Practices in Track and Field*. Two hours. Second semester. (Staff)

Fundamental movements involved in the different events; (1) staffing for the different events; (2) training and practice; (3) officiating..

PHYSICAL EDUCATION 620: *Organization and Administration of Physical Education*. Three hours. (Hogg)

PHYSICAL EDUCATION 621: *First Aid*. One hour. Each semester. (Duke, Hogg)

Lectures, discussions, and practical demonstrations of Red Cross methods in first aid.

PHYSICAL EDUCATION 623: *Athletic Management*. Two hours. First semester. Open to Physical Education majors only. (Hogg)

PHYSICAL EDUCATION 640: (See service courses in Physical Education for Women). (Duke)

PHYSICAL EDUCATION 641: *Materials and Methods in Health and New Safety Education*. Two hours. (McLane)

PHYSICAL EDUCATION 701: *Fourth Year General Gymnastics and Sports Activities*. One hour. (Sta)

Fundamental drills, participation, and sports activities are included in the team sports.

PHYSICAL EDUCATION 702: *Fourth Year General Gymnastics and Sports Activities*. One hour. (Staff)

Fundamental drills, participation, and sports activities are included in the team sports.

PHYSICAL EDUCATION 703: *Normal Health Diagnosis*. Three hours. Second semester. Prerequisite, senior standing. (McLane)

A study of the teaching and procedure in health and medical examinations and health inspection. The relation of the Physical Education Department to the Health Department, the Health Examination, and follow-up service. The

characteristics and symptoms of functional and structural disorders and communicable diseases.

PHYSICAL EDUCATION 704: *Organization and Administration of Recreational Activity Programs*. Three hours. (McLane)

Problems, methods and procedures in the organization and administration of recreational and vocational activities in community centers, playgrounds, clubs, and churches, scouting and industry.

PHYSICAL EDUCATION 705: *Athletic Injuries, Prevention, Diagnosis, and Treatment*. Two hours. First semester. Open to Physical Education majors only. (Hogg)

A course for men and women in the prevention, diagnosis, and treatment of injuries in the gymnasium and on the athletic field.

PHYSICAL EDUCATION 714: *Materials and Methods in Physical Education*. Two hours. (Hogg)

PHYSICAL EDUCATION 720: *Recreation*. One hour. No prerequisite. (Staff)

This course is open to all students wishing to participate in recreational activities—camping, boating, bicycling, hiking, fishing, golf, etc. Students registering in this course will be required to participate in the above activities at a minimum of 36 hours per semester and a maximum of 60 hours per semester under the supervision of the Physical Education Department.

Department of Health and Physical Education For Women

CHRISTINE MOON*, ASSOCIATE PROFESSOR AND HEAD OF THE DEPARTMENT.
ASSISTANT PROFESSORS JULIA DUKE (ACTING HEAD OF THE DEPARTMENT),
KATHRYN RIDDLE; INSTRUCTORS MINNIE RATLIFF, BARBARA THOMAS.

The Department of Health and Physical Education for Women is set up to perform the following services:

1. Provide service courses to meet the four hours required by the college for graduation.
2. Provide courses to meet requirements of the State Department of Education for certification of teachers.
3. Provide a curriculum to train teachers in Health and Physical Education and leading to the B.S. Degree in the School of Arts and Sciences.

All students are required to complete four semester hours of activity work in physical education, this work to be completed by the end of the sophomore year.

Freshman year Select two from 412-417.

Sophomore year: Select one from 530, 540, 560, 561.
 Select one from 570-582 or 421.
 Elementary majors—430 and 521.

All students majoring in Physical Education are required to attend at least one summer session and take at least one course in swimming. It is recommended that this be before the junior year; special permission should be secured from the head of the department if it is necessary to postpone this.

Many of the courses listed under the service program are open to and required of majors in Physical Education. This is especially true of some of the rhythms courses and all of the individual sports.

All students who expect to teach must take the following courses in addition to the four hours listed above (a total of eight hours in Health and Physical Education): P. E. 500 and 621.

All students in Elementary Education must complete twelve hours in Health and Physical Education, including

*On leave for military service.

the four hours of activity work listed above: Physical Education 500, 621, 640, and 641.

MINOR IN HEALTH AND PHYSICAL EDUCATION FOR WOMEN

(For students in other departments)

Students who wish to minor in Physical Education must complete 11 hours above the freshman level in addition to the requirements for all students applying for teaching certificates. Total hours for a minor, 21. A recommended group of courses would include:

Physical Education 413-414-415-421 (or Physical Education 403-404).

Physical Education 540M-521-550M-601-603-640-650M.

DEPARTMENTAL REGULATIONS

Physical Examinations. All first year students and all students transferring from other institutions are required to have physical and health examinations by their family physicians. Thereafter all students in activity classes should be re-examined each year by their family physicians and a record of this presented to the head of the department to be kept on file in the department.

Record blanks should be secured from the Guidance Counselor, the Dean of Women, or the Department of Physical Education for Women.

Costume. Each girl who is registered for an activity class in physical education is expected to have white tennis shoes and socks and a gymnasium uniform, to be bought after she arrives at college.

Defense Program. This department is one that is called upon by the state department to provide an additional service in line with national defense. All state colleges have been requested to provide a *five hour per week activity program for all students*. Courses are planned to accommodate students through conditioning classes, expansion of intramural program, and additional sections in all courses to meet the needs.

DESCRIPTION OF COURSES

Courses numbered in the 400's are open to freshmen, those numbered 500 and above are open to sophomores and upper class students.

PHYSICAL EDUCATION 410, 411: *Restricted Activities*. One hour. Throughout year. (Staff)

For girls not physically able to take the regular courses.

PHYSICAL EDUCATION 412 (formerly 512): *Soccer*. One hour. First semester. (Riddle)

Fundamental techniques, rules and team play.

PHYSICAL EDUCATION 413 (formerly 513): *Basketball*. One hour. First semester. (Staff)

Fundamental techniques, rules, and team play.

PHYSICAL EDUCATION 414 (formerly 514): *Volley Ball and Mass Badminton*. One hour. Each semester. (Duke)

Fundamental skills, rules, and team play.

PHYSICAL EDUCATION 415 (formerly 515): *Softball*. One hour. Second semester. (Ratliff)

Fundamental game skills, rules, and team play.

PHYSICAL EDUCATION 416 (formerly 516): *Fieldball and Speedball*. One hour. Second semester. (Riddle)

Fundamental game skills, team play, and rules.

PHYSICAL EDUCATION 417: *Field Hockey*. One hour. First semester. (Staff)

Fundamental game skills, team play, and rules.

PHYSICAL EDUCATION 421: *Recreational Sports*. One hour. First and second semesters. (Duke)

Instruction in darts, table tennis, shuffleboard, horseshoes, ring tennis, croquet, mass badminton, and other games.

PHYSICAL EDUCATION 430: *Games of Low Organization*. One hour. First and second semester. (Riddle)

This course includes games of low organization. Materials are presented and practice given in methods of teaching.

PHYSICAL EDUCATION 500: See course description

under Department of Health and Physical Education for Men. One hour. First and second semesters. (Staff)

PHYSICAL EDUCATION 510-511: *Restricted Activity*. One hour. First and second semesters. (Staff)

A continuation of 410-411 for girls not physically able to take part in sports and rhythms.

PHYSICAL EDUCATION 520: *Rhythms for the Elementary Grades*. One hour. Second semester. (Ratliff)

This course includes singing games, free activities, creative rhythms, folk dances, and dramatizations for the grades from kindergarten through the sixth grade. Materials are presented and practice given in the methods of teaching.

PHYSICAL EDUCATION 530: *Fundamentals of Modern Dance*. One hour. Each semester. (Thomas)

May be repeated for credit.

PHYSICAL EDUCATION 540: *Folk Dancing*. One hour each semester. (Thomas)

PHYSICAL EDUCATION 545: *Social Dancing*. One hour. First and second semesters. (Thomas)

Open only to students who do not know how to dance. This course offers the fundamental social dance steps, beginning with the dance walk and continuing to the foxtrot, two step, waltz, and the turns for these basic steps. Open to both men and women. May be taken only as an elective, it will not be accepted as part of the requirement for the basic activity courses.

PHYSICAL EDUCATION 550: *Tumbling and Pyramids*. One hour. First semester. (Ratliff)

PHYSICAL EDUCATION 560: *Tap Dancing*. One hour. Each semester. Open to men and women students. (Thomas)

PHYSICAL EDUCATION 561: *American Country Dances*. One hour. First and second semesters. (Riddle)

Circle, quadrille, and longways dance forms that are a part of the American Country Dance. Open to men and women.

PHYSICAL EDUCATION 570: (Not offered 1943-44).

PHYSICAL EDUCATION 571: *Tennis*. One hour. Second semester. (Ratliff)

This course includes the practice of the various techniques of the game and the rules.

PHYSICAL EDUCATION 572: *Badminton*. One hour. First semester. (Duke)

The course includes the practice of the various techniques of the game and the rules involved.

PHYSICAL EDUCATION 573: *Archery*. One hour. First semester. (Riddle)

Fundamentals of shooting and instruction in the choice of equipment. Open only to majors and to students taking restricted activity.

PHYSICAL EDUCATION 580: *Beginning Swimming*. One hour. Taught in the summer school only. (Duke)

PHYSICAL EDUCATION 581: *Intermediate Swimming*. One hour. Taught in the summer school only. Open to men and women. (Duke)

PHYSICAL EDUCATION 582: *Advanced Swimming and Water Safety*. One hour. Taught in the summer school only. Open to men and women. (Duke)

PHYSICAL EDUCATION 621: *First Aid*. One hour. Each semester. (Duke)

Lectures, discussions, and practical demonstrations of Red Cross methods in first aid.

PHYSICAL EDUCATION 640: *Methods and Materials in Physical Education for Elementary Schools*. Two hours. Each semester. Prerequisite, Physical Education 520 and 430, or 521, and two additional semesters of activity. (Thomas)

Planned to satisfy the requirements for elementary school teachers, and required of all majors.

PHYSICAL EDUCATION 650: *Physical Education in the High School*. Two hours. Each semester. Prerequisite, four semester hours in activity. (Moon)

Planned to satisfy the requirements for high school teachers. Not open to major students.

COURSES FOR MAJORS IN PHYSICAL EDUCATION

PHYSICAL EDUCATION 403: *Field Hockey and Volley Ball*. One hour. First semester. (Staff)

Fundamentals of these sports, and intensive study of rules, play, etc. The class meets four times a week for activity and one time for lecture.

PHYSICAL EDUCATION 404: *Basketball and Softball*. One hour. Second semester. (Staff)

Fundamentals in these sports, and intensive study of rules, play, etc. The class meets four times a week for activity and one time for lecture.

PHYSICAL EDUCATION 500: See course description under Health and Physical Education for Men.

PHYSICAL EDUCATION 503, 504: *Sports*. One hour. First and second semesters. (Staff)

A continuation of study of sports techniques, practices in skill, etc., begun in the freshman year. Four times a week for activity and one hour for lecture.

PHYSICAL EDUCATION 521: *Games of Low Organization*. Two hours. First semester. (Riddle)

Course similar to Physical Education 430 but planned for major students and requiring outside study, notebooks, etc.

PHYSICAL EDUCATION 540M: *Folk Dancing*. One hour. Second semester. (Thomas)

Special section for women majors.

PHYSICAL EDUCATION 550M: *Tumbling*. One hour. First semester. (Ratliff)

Special section for majors.

PHYSICAL EDUCATION 601: *Basketball Coaching*. Two hours. First semester. Prerequisite, Physical Education 404, or 413. (Ratliff)

Study of fundamental skills, team offense and defense, coaching principles and officiating. Open to non-majors by permission of the instructor.

PHYSICAL EDUCATION 603: *Technique in Team Sports*. Three hours. Second semester. Prerequisites, Physical Education 403, 404, and 503, 504. (Duke)

Study of team sports from viewpoint of teacher and coach.

PHYSICAL EDUCATION 610: *History and Principles of Physical Education*. Three hours. First semester. Prerequisite, junior standing. (Duke)

A course designed especially for Health and Physical Education majors.

PHYSICAL EDUCATION 620: See course description under Department of Physical Education for Men. (Hogg)

PHYSICAL EDUCATION 621: *First Aid*. One hour. Each semester. (Duke)

See service curriculum.

PHYSICAL EDUCATION 626: *Kinesiology and Correctives*. Three hours. Second semester. Prerequisite, Biology 625. (Riddle)

This course includes the theory of body movement in relation to Physical Education activities. Instruction and practice are given in examining postures, and a study of corrective exercises is made.

PHYSICAL EDUCATION 631: *Festivals and Pageantry*. Two hours. Second semester. Open to non-majors by permission of the instructor. (Not offered 1943-44)

PHYSICAL EDUCATION 640: (See service courses)

PHYSICAL EDUCATION 641: (See course description under Department of Health and Physical Education for Men)

PHYSICAL EDUCATION 650M: *Physical Education in the High School*. Three hours. Second semester. (Duke)

A study of the needs and practices in Physical Education at the high school level. The course includes a study of the high school curriculum in Physical Education and the method of organizing and setting up a program for girls.

PHYSICAL EDUCATION 660: *Community Recreation*. Formerly called Theory of Play. Three hours. (Not offered 1943-44).

This course is made more practical by including a study of community recreation, how it is organized, directed and financed.

Department of Journalism

KENNETH F. HEWINS, ASSOCIATE PROFESSOR AND HEAD OF THE DEPARTMENT

ASSISTANT PROFESSOR LEONARD B. WATT, JR.

REQUIREMENTS FOR A MAJOR IN JOURNALISM

Of the thirty semester hours required for a major in Journalism, eighteen must be in advanced Journalism courses, numbered in the 600 series. The other twelve hours required include English 401 and 402 (*Freshman Composition*); English 606 (*Advanced Composition—Exposition*), and English 608 (*Advanced Composition—Narration*) or English 632 (*Advanced English Grammar*).

For a minor, the student must complete 21 hours in a subject related to Journalism. Junior and senior courses in such fields as English are recommended as a minor with a Journalism major, although other subjects, such as the social sciences, may be selected upon approval of the Dean of the School of Arts and Sciences and the department head.

Proficiency in spelling and grammar is essential to successful newspaper work. Students weak in those subjects are discouraged from enrolling in Journalism as a major.

REQUIREMENTS FOR A MINOR IN JOURNALISM

(For students in other departments)

Eighteen hours of advanced journalism courses, numbered in the 600 series, may constitute a minor in journalism.

MECHANICAL AIDS TO JOURNALISM

THE PRINTING PLANT

Opportunity for observation and experience in printing processes and other phases of mechanics of publishing is available to the Journalism students through a modern and well-equipped printing plant maintained by the college. Two linotype machines, a wide variety of foundry-cast type, presses and other up-to-date equipment are included in the print shop.

THE ENGRAVING PLANT

The college maintains a photo-engraving plant by means of which students may learn the fundamentals of the process of producing plates for newspaper reproduction.

THE STUDENT NEWSPAPER

Practical experience in newspaper work is afforded the Journalism students through their work as staff members of *The Tech Talk*, the college newspaper. In addition to their editorial work on the newspaper staff, the Journalism students are encouraged to gain practical mechanical experience through page make-up, etc.

DESCRIPTION OF COURSES

JOURNALISM 501: *News Writing*. Three hours. First semester. Prerequisite, English 402. (Hewins)

Beginning course in news writing. Theoretical study of newspaper style and mechanical terms, supplemented by work on the college newspaper. In addition to benefiting journalism students, this course is planned as an aid to education students preparing to supervise publications in connection with their teaching duties and to agriculture students seeking some training in the writing of articles for weekly newspapers or trade journals.

JOURNALISM 601: *Sports and Special Writing*. Three hours. First semester. Prerequisite, English 402. (Watt)

Open only to majors in the department of physical education for men. Course in beginning news writing, with special emphasis on the writing of sports.

JOURNALISM 610: *Copy Editing*. Three hours. Second semester. Prerequisite, Journalism 501 or 601. (Hewins)

Course dealing with methods of editing copy and the writing of headlines. Theory supplemented by work on the college newspaper.

JOURNALISM 620: *Feature Writing*. Three hours. First semester. Prerequisite, Journalism, 501. (Watt)

Practical instruction in gathering material for "human interest" and feature articles of various types and the writing

of these types of manuscripts for magazines as well as newspapers. Consideration also given to the marketing of manuscripts.

JOURNALISM 630: *Editorial Writing*. Three hours. Second semester. Prerequisite, Journalism 501. (Watt)

Course in the study of fundamentals and practice in editorial writing. A survey is made of editorial pages of several of the leading state and national newspapers.

JOURNALISM 640: *The Country Weekly*. Three hours. Second semester. Prerequisite, Journalism 501. (Watt)

Course designed to benefit agriculture and home economics students as well as journalism students. Consideration is given to the preparation of copy for weeklies as differentiated from the dailies.

JOURNALISM 650: *Practical Newspaper Work*. Two hours. First semester. Open only to journalism majors or minors. Prerequisites, Journalism 501, 610, 620, 630 and 640. (Hewins)

Advanced course in newspaper practice, involving work on the college newspaper. Writing of articles for publication in the college newspaper upon assignment or consultation with the faculty supervisor of the paper.

JOURNALISM 651: *Practical Newspaper Work*. Two hours. Second semester. Prerequisite, Journalism 650. (Hewins)

Continuation of Journalism 650, with the same provisions and requirements applying.

JOURNALISM 660: *Advertising*. Two hours. First and second semesters. No prerequisite. (Watt)

Fundamental study of advertising copywriting, appeals and layouts. Special emphasis is placed on retail advertising in newspapers. Direct-by-mail and outdoor advertising considered briefly.

Department of Mathematics

P. K. SMITH, PROFESSOR AND HEAD OF THE DEPARTMENT.
ASSOCIATE PROFESSORS F. C. GENTRY*, H. S. KALTENBORN*, HENRY F. SCHROEDER, ERNEST M. SHIRLEY; ASSISTANT PROFESSORS B. E. GATEWOOD*, G. E. JONES; ACTING INSTRUCTORS R. H. HASSELL, WALLACE HERBERT.

The courses in the department are arranged to fit in with the general courses and also to give students majoring in mathematics a thorough preparation for teaching or graduate work.

For registration in Mathematics 401 or 402 the student must have had one unit in high school geometry and one and one-half units in high school algebra. For registration in Mathematics 419 the student must have had one unit in high school algebra. Engineering students having deficiencies in high school credits in algebra will be required to register in Mathematics 400. Commerce students showing such deficiencies will be required to register in Mathematics 405.

REQUIREMENTS FOR A MAJOR IN MATHEMATICS

Students majoring in Mathematics are required to consult the Head of the Department of Mathematics during the second semester of their sophomore year in college for direction as to their major and minor courses of study during their junior and senior years.

Prescribed courses for a major: Mathematics 401, 402, 403, 501, 502, 600, 601, 602, 660, and in addition three semester hours earned in courses numerically above Mathematics 602.

Mathematics majors who desire a professional teaching certificate are advised to elect Mathematics 680.

REQUIREMENTS FOR A MINOR IN MATHEMATICS (For students in other departments)

Students in other departments who wish to minor in Mathematics are required to take Mathematics 401, 402, 501, 660, and in addition nine semester hours earned in courses numerically above Mathematics 501.

*On leave for military service.

DESCRIPTION OF COURSES

MATHEMATICS 400: *Introductory and College Algebra*. Six hours. Three credits. First and second semesters. (Staff)

Operations with polynomials, factoring, fractions, linear equations in one unknown, simultaneous linear equations, quadratic and simultaneous quadratic equations, variation, binomial theorem, and theory of equations.

MATHEMATICS 401: *College Algebra*. Three hours. First and second semesters. Prerequisite, one unit of algebra. (Staff)

Exponents, radicals, graph of a function, quadratics, systems of equations involving quadratics, variation, and progressions, binomial theorem, and theory of equations.

MATHEMATICS 402: *Trigonometry*. Three hours. (Staff)

Solution of right triangles, reduction formulas, functions of several angles and of multiple angles, logarithms, oblique triangles, trigonometric equations, and inverse functions.

MATHEMATICS 403: *Solid Geometry*. Three hours. First and second semesters. Prerequisite, Mathematics 401, 405, 407, or 419, and Plane Geometry. (Staff)

The plane, polyhedrons, cylinders, cones, and the sphere.

MATHEMATICS 405: *General Mathematics*. Three hours. First and second semesters. (Staff)

Basic principles of arithmetic reviewed, operations with polynomials, the formula, linear equations, exponents and radicals, and logarithms. This course is designed for students in the School of Arts and Sciences, and for students in the School of Education offering only one year of mathematics for graduation.

MATHEMATICS 406: *General Mathematics* continued. Three hours. Second semester. Prerequisite, Mathematics 405. (Staff)

Quadratic equations, binomial theorem, progressions, theory of investment, trigonometry of the right triangle, and solid geometry.

MATHEMATICS 407: *Mathematics of Agriculture*. Three hours. First semester. (Staff)

Drawing and graphic solutions, indirect measurement, trigonometry and introductory surveying, review of elementary algebra, logarithms, and progressions.

MATHEMATICS 408: *Mathematics of Agriculture*. Three hours. Second semester. Prerequisite, Mathematics 407. (Staff)

Compound interest, annuities and depreciation, averages and mixtures, simple machines, composition and resolution of forces.

MATHEMATICS 419: *Business Mathematics I*. Three hours. First and second semesters. Prerequisite one unit of high school algebra. This course is designed for students in the Commerce Department. (Staff)

Polynomials, fractions, simple equations, simultaneous linear equations, percentage, simple interest, discount, and partial payment.

MATHEMATICS 420: *Business Mathematics II*. Three hours. First and second semesters. Prerequisite, Mathematics 419. (Staff)

Commuting obligations, equations of accounts, exponents and radicals, quadratic equations, logarithms, and compound interest.

MATHEMATICS 501: *Plane Analytic Geometry*. Three hours. First and second semesters. (Staff)

Cartesian co-ordinates in the plane, straight line, circle, conic sections, polar co-ordinates, and transformation of axes.

MATHEMATICS 502: *Solid Analytic Geometry*. Three hours. Second semester. Prerequisite, Mathematics 501. (Staff)

Cartesian co-ordinates in space, the plane and the straight line in space, quadric surfaces, and transformation of co-ordinates.

MATHEMATICS 600: *Calculus I*. Three hours. First and second semesters. Prerequisite, Mathematics 501. (Staff)
Variables, functions and limits, differentiation of alge-

braic forms, various applications of the derivative, successive differentiation and applications, differentiation of transcendental functions and applications, differentials, and curvature.

MATHEMATICS 601: *Calculus II*. Three hours. First and second semesters. Prerequisite, Mathematics 600 (Staff)

Integration of elementary forms, the definite integral, calculation of areas, fundamental theorem of integral calculus and applications, integration by various devices, centroids, fluid pressure, and work.

MATHEMATICS 602: *Calculus III*. Three hours. First semester. Prerequisites, Mathematics 502 and 601. (Staff)

Mean value theorem and applications, expansion of functions, partial differentiation and applications, multiple integrals, moments of inertia and volumes, and areas by multiple integrals.

MATHEMATICS 619: *Business Mathematics III*. Three hours. First and second semesters. Prerequisite, Mathematics 420. (Smith, Shirley)

Equation of payments, annuities, amortization and sinking funds, depreciation, bonds, life annuities and insurance.

MATHEMATICS 620: *Statistics*. Three hours. Second semester. Prerequisite, Mathematics 605. (Smith, Shirley)

Sampling tabulation, graphic representation, averages, dispersion and skewness, correlation, index numbers, seasonal fluctuations and cyclic application, characteristic curves, curve fitting, normal probability curve, and the probability error.

MATHEMATICS 660: *Advanced College Algebra*. Three hours. Prerequisite, Mathematics 401, 410. (Staff)

Complex numbers, theory of equations, permutations and combinations, probability, partial fractions, and determinants.

MATHEMATICS 680: *General Mathematics*. Three hours. Prerequisite, fifteen semester hours in mathematics or sufficient teaching experience. (Smith, Jones, Schroeder.)

This course is designed for a critical study of the processes of arithmetic, algebra, and geometry. General mathe-

matics will be studied and special attention will be given to the methods of presenting algebra, geometry, and general mathematics in high school.

MATHEMATICS 690: *Navigation*. Three hours. (Smith)

Simple vectors, wind star, radius of action, interception, the sailings, spherical trigonometry, nautical astronomy, latitude, latitude and longitude by the Sumner lines of position.

MATHEMATICS 701: *College Geometry*. Three hours.

First semester. Prerequisite, Mathematics 501, or sufficient teaching experience. (Gentry, Schroeder)

Geometric construction with elements given and indirect, similar and homothetic figures, medians, bisectors, altitudes, and the nine-point circle.

MATHEMATICS 706: *Differential Equations*. Three

hours. First semester. Prerequisite, Mathematics 601. (Smith, Kaltenborn, Gatewood)

Definitions of ordinary and partial differential equations; of degree and order; of various types of solutions. Equations of the first order and first degree, equations of the first order and higher degree, singular solutions, applications from geometry and physics, linear equations with constant coefficients and with variable coefficients, exact equations, and integration in series.

MATHEMATICS 707: *Differential Equations*. Three

hours. Second semester. Prerequisite, Mathematics 706. (Smith, Kaltenborn, Gatewood)

Total differential equations, systems of differential equations, partial differential equations of the first order, and partial differential equations of higher order.

Department of Music

LAVERNE E. IRVINE PROFESSOR AND HEAD OF THE DEPARTMENT.
ASSOCIATE PROFESSOR ELBERT HASKINS*; ASSISTANT PROFESSORS PAUL
BREITWEISER, DORIS BURD HASKELL, LINNA TIMMERMAN HUNT,
STELLA BOOLES KIDD, JAMES A. SMITH; INSTRUCTORS AVON
LEE BLAKELY BAXTER, EVELYN EADDY.

GENERAL INFORMATION AND REGULATIONS

Professional attitude. No amount of technical skill, of theoretical knowledge, or of intellectual superiority on the part of the students can compensate for lack of positive professional attitude which manifests itself in attendance at clinics, conferences, seminars, concerts, department social functions, recitals by fellow students; in listening to certain superior radio programs; in cooperating in a constructive manner with the Director of Music and the Music Faculty in everything that tends to improve the department's service to the student, to the institution, the community, the state, and to the profession. Building a healthy, constructive professional attitude is an obligation of increasing importance.

Therefore, no student will be permitted to continue as a major in any music curriculum whose attitude has been unsatisfactory to the Director or the Music Faculty during the previous session.

To a certain degree the above statement applies to music minors and to those who take music courses as electives.

Considering the necessarily higher cost of training in music, an obligation rests upon the Faculty to limit the student personnel in the department to those who take fullest advantage of the opportunities offered.

Ensemble credit and requirements. No student will receive more than two hours credit per semester for ensemble work; music majors only one hour credit per semester. Ensemble requirements and credits for music majors are a separate set-up, varying with individuals. No work is more important for prospective music teachers. Majors must have this work approved by the department head each semester. They must do ensemble every semester and summer session they are enrolled in a music course. All instrumental majors

*On leave for military service.

must do both band and orchestra work. Piano majors must enroll in choral ensembles.

All music majors whose high school records do not show a course in physics must elect a college course which covers the physics of sound.

Students who take a twenty-four hour major in applied music under the Bachelor of Music curriculum are required to give a senior recital.

After the student who plans to teach has elected the particular certification he wishes to obtain in pursuing a particular degree in music, he will be expected to complete the necessary courses to meet the certification desired before the degree is conferred. This provision is made in consideration of the complications involved in administering the various certifications in music, i.e. vocal, orchestra, and band.

Academic electives for professional majors in music are approved according to individual needs; e. g., voice majors are required to elect foreign language, and instrumental majors who have had no foreign language in high school are required to elect two years in college.

Because of the necessary variables in the music curricula the student must confer once each session with the Director of Music for the purpose of checking his own progress with his individual advisory sheet as maintained in the Music Department office in cooperation with the Registrar's office.

Pipe organ. A beautiful pipe organ has been installed recently in Howard Auditorium. This organ, the gift of Mr. and Mrs. G. A. Adams of Ruston, makes it possible for interested and qualified Tech students, either majors or non-majors in music, to study pipe organ as a regular part of their college work.

DESCRIPTION OF COURSES

I. THEORY AND METHODS

MUSIC 401: *School Music*. Two hours. First semester. (Baxter, Eaddy)

Rote songs. Beginning work in Music Hour Series. Sight singing, study of rhythm and music fundamentals. To some degree the work will approximate the work as given in the beginning stages of regular class room work.

MUSIC 402: *School Music*. Two hours. Second semester. Continuation of 401. (Baxter, Eaddy)

MUSIC 410: *Theory and Practice*. Three hours. First semester. (Staff)

A study of notation, rhythm, major and minor scales and intervals. Sight-singing, ear training, rhythmic and melodic dictation. Prerequisite, a high school course in *Fundamentals of Music* or its equivalent.

MUSIC 411: *Theory and Practice*. Three hours. Second semester. Continuation of 410, with some advanced content added. (Staff)

MUSIC 501: *Harmony*. Three hours. First semester. (Haskell)

A study of triads and inversions, the dominant seventh chord and inversions. Harmonization of given melodies and basses and original themes. Keyboard harmony.

MUSIC 502: *Harmony*. Three hours. Second semester. (Haskell)

A study of the dominant ninth, leading tone seventh, and diminished seventh chords and their inversions. Secondary seventh chords, and their inversions. Study of modulation, keyboard harmony.

MUSIC 503: *School Music*. Two hours. First semester. (Eaddy)

Further acquaintance with most used songs of our common heritage. Continuation of the work to meet the twelve-hour standard for elementary classroom teachers.

MUSIC 504: *School Music*. Two hours. Second semester. Continuation of 503. (Eaddy)

MUSIC 510: *Theory and Practice*. Three hours. Continuation of Music 411. (Staff)

MUSIC 511: *Theory and Practice*. Three hours. Continuation of Music 510. (Staff)

MUSIC 520, 521: *Keyboard Harmony*. Two hours each semester. (Smith)

A special course in keyboard harmony supplementing the work of the harmony course; harmonizing of given melodies and basses at the piano.

MUSIC 560: *School Music*. Two or three hours, depending upon desires and needs of individual students. Summer session. (Eaddy, Irvine)

A course designed particularly to meet the needs of the class-room teacher.

MUSIC 601: *Advanced Harmony*. Three hours. First semester. (Haskell)

A study of altered chords, enharmonic changes, irregular resolutions of the dominant seventh, modulation continued. Keyboard harmony.

MUSIC 602: *Advanced Harmony*. Three hours. Second semester. (Haskell)

A study of non-harmonic tones, melodic figuration; accompaniments; the figured chorale and form, including simple song forms, the sonata, variation, rondo forms and the suite. Original exercises and keyboard harmony.

MUSIC 605: *School Music*. Two hours. Either semester. (Eaddy)

Organized observation of music teaching in training school and elsewhere. Study of the principles and problems of integration. Normally, this will be the fifth semester of the twelve-hour program for elementary teachers.

MUSIC 620, 621: *History and Appreciation of Music*. Three hours each semester. (Kidd, Irvine)

A study of musical development with numerous recorded examples. Attendance at assigned concerts and listening to particular radio programs are required.

MUSIC 630: *Music Appreciation*. Two hours. Two hours laboratory, one hour lecture per week. For non-music majors. Attendance at assigned concerts and listening to particular radio programs are required. (Kidd, Irvine)

A cultural course in appreciation of music. The object of this course is the attainment of appreciative listening through a general survey of outstanding musical compositions. Music 630 is open to all students except music majors. The sixth semester work for those students who wish to meet the 12-hour standard of the State Department of Education. (Kidd, Irvine)

MUSIC 634: *History or Appreciation*. One hour. (Kidd, Irvine)

This course will be offered every two years to accommodate transfer students who are one hour short in the requirement for the Tech degree and for state certification to teach.

MUSIC 635: *Music for Pleasure*. Two hours. (Baxter, Hunt)

A course designed for physical education majors but open to others. Emphasizes singing for pleasure, instruction in proper use of the voice, playing of some simple instrument (e.g. the tonette), with technical knowledge of music introduced only incidentally or as necessity requires for the work pursued.

MUSIC 640, 641: *Form and Analysis*. Two hours. Two semester. (Breitweiser, Haskell)

A study of form from the simplest song forms through the sonata and symphony. Analysis of standard works with special emphasis on the sonata and rondo forms.

MUSIC EDUCATION 660: *Music Methods*. Two hours. (Eaddy, Irvine)

A course emphasizing procedures, materials, and problems up to the high school level. It includes directed observation with discussions.

MUSIC 662: *Piano Pedagogy and Materials*. Two semester hours. Prerequisite, fifteen hours of piano. (Breitweiser, Kidd)

This course is intended for those expecting to become private teachers of piano. It is required by the State Department of Education for those teachers wishing their pupils to be eligible for credit in piano in the local high schools.

MUSIC 674: *Drum Majoring*. One hour. Second semester. (Smith)

A study of fundamental technique of baton twirling with basic instruction in band formation, drill, and parade.

MUSIC 680: *Elementary Composition*. Two hours. Prerequisite, eighteen hours of theory. (Haskell)

This course affords an opportunity for the student to

utilize his previous theoretical training in testing his creative ability in composition.

MUSIC 701: *Counterpoint*. Three hours. First semester. (Breitweiser, Haskell)

Simple counterpoint; five species in two, three and four voices.

MUSIC 702: *Counterpoint*. Three hours. Second semester. Continuation of Music 701. Not permitted as a theory elective unless the student has previously taken Music 520, Music 640, Music 680, and Music 701. (Breitweiser, Haskell)

A study of combined species in three, four and more voices. Elementary work in Canon and Fugue.

MUSIC 712: *Orchestration*. Three hours. (Haskell, Smith)

A study of the individual characteristics, range, and capabilities of the instruments of the orchestra and band. Some arranging and scoring for varied groups. Some performance of arrangements under the student's conducting.

MUSIC 720: *Conducting*. Two hours. (Irvine)

Technique of the baton, score reading, principles of interpretation, and problems which face the conductor. The work will be adapted to the individual's needs with respect to vocal or instrumental emphasis. Practice in various campus organizations.

MUSIC EDUCATION 760: *Problems, Materials, and Administration*. Three hours. (Irvine)

A course which anticipates many of the practical problems which will confront the secondary teacher and supervisor of music; e.g. program building, contests, festivals, requisitions, markings, materials, scheduling, rehearsing, technical review of the instruments, etc.

MUSIC 762, 763: *Class Piano Methods and Practice Teaching*. Two hours for each course. (Breitweiser, Kidd)

Study of methods in teaching piano pupils of different age levels. Practice in teaching pupils who do not wish college credit for their work.

MUSIC 774, 775: *Seminar*. One hour each semester. (Eaddy, Irvine)

Discussions and guided research based upon professional problems which confront the musician and the music teacher.

II. APPLIED MUSIC

Courses beginning with the numbers 4, 5, 6, or 7 ordinarily mean first, second, third, or fourth years courses respectively. Courses ending in 50 or 51 (for example, 450, 451) carry three hours of credit per semester. Usually in these courses the student receives two private half-hour lessons per week; in some cases, however, the student receives one private half-hour lesson per week and one class lesson per week of one hour duration. Courses ending in 52 or 53 carry two hours of credit per semester. A student may receive one private lesson per week of half-hour duration or he may be assigned to a class meeting two hours per week. Courses ending in 54 or 55 carry one hour of credit per semester. These courses usually require meeting class one hour per week.

In all applied music, the number of hours devoted to practice is the primary factor involved. The number of hours of practice per week depends upon whether the lessons are taken privately or in class and upon the amount of credit involved in the course. Failing to meet practice hours is a sufficient reason for failing courses in applied music. However, the number of semester hours of credit placed on the permanent record of the student in the Registrar's Office will depend entirely upon the number of hours actually devoted to practice. This stipulation is in accordance with the regulations of the National Association of Schools of Music. Students will be required to pay the regular music tuition fee for private lessons above the number normally required in their respective curricula if the additional lessons are required because of failure to meet practice hour assignments.

1. PIANOFORTE

A. PIANO MAJOR

PIANO 450, 451: *Freshman Piano*. Six hours.

To enter the four-year degree course in piano, the student should be grounded in the correct touch and reliable

technique. He should play all major and minor scales correctly in moderately rapid tempo, also broken chords in octave position in all keys. Op. 299 and some of Heller's Op. 45, 46, 47. He should study Hanon's technic and at least twelve of Bach's two-part Inventions, memorizing Nos. 1, 8, and 14. The compositions for this year's work should correspond in difficulty to:

Haydn, Sonata No. 11, G. Major No. 20.

Mozart, Sonata C. Major No. 3, F Major No. 13.

Beethoven, Sonata Op. 49, No. 1.

Beethoven, Sonata Op. 10, No. 1.

Schubert, Impromptu Op. 142, No. 2.

PIANO 550, 551: *Sophomore Piano*. Six hours.

During this year, the student should acquire a technique sufficient to play scales in sixths and tenths and dominant and diminished seventh arpeggi in rapid tempo. He should study selections from Czerny's Opus 740 and Cramer's 84 Studies. He should also study Bach's Three-Part Inventions Nos. 2, 3, 4, and 7. He should develop some octave technique and should study compositions of the following grades of difficulty:

Beethoven, Sonatas or Movements from Sonatas, such as Op. 2, No. 1; Op. 14, No. 1; Op. 13.

Mendelssohn, Songs Without Words, as "Hunting Song," "Spring Song."

Schubert, Impromptu B flat.

Chopin, Polonaise C sharp Minor, Valse E Minor, Nocturne Op. 9, No. 2.

Also compositions by Hayden and Mozart and some by standard modern composers of corresponding difficulty. At the end of this year, the student should demonstrate his ability to read at sight accompaniments and compositions of medium difficulty.

PIANO 650, 651: *Junior Piano*. Six hours.

Scales in double thirds and dominant and diminished seventh arpeggi in rapid tempo. Bach's three-part Inventions Nos. 8, 10, 14, 15 and several of Czerny's Op. 740. He should study Chopin Etudes, Bach's Prelude and Fugue in C Minor;

also selected studies from Clementi's *Gradus Ad Parnassum*.
Compositions such as:

Beethoven, Sonatas Op. 31, No. 1, Op. 31, No. 2, Op. 27,
No. 2.

Brahms, Rhapsodie B Minor-Sonata F minor.

Liszt—"Liebestraum"

Schumann—Nocturne F Major. Novelette F Major and
compositions by modern American and foreign composers,
such as, MacDowell, Debussy, Grieg, Rubinstein and others.

PIANO 750, 751: *Senior Piano*. Six hours.

At the end of this year, the student must have acquired
the principles of tone production and velocity and their ap-
plication to scales, arpeggi, chords, octaves and double notes.
He must have a repertoire including compositions by the
principal classic, romantic and modern composers, such as
Beethoven—Later sonatas Op. 53, 57 and a concerto.

Liszt—Hungarian Rhapsodies Nos. 6 and 12.

Schumann—Sonata G Minor, a concerto.

Chopin — Polonaises, Scherzi, Barcarolles, Ballads,
Etudes, Preludes.

Bach—Preludes and Fugues—Well-Tempered Clavi-
chord.

Students must have had considerable experience in en-
semble and should be capable sight readers. At end of the
fourth year must give creditable graduation recital includ-
ing a concerto or a movement from a concerto to be played
from memory.

B. PIANO MINOR (FOUR YEARS)

PIANO 552, 553. Two hours per semester.

At the end of the second year, the student should have
learned all major and minor scales and dominant seventh
arpeggi. He should be able to play a number of studies in
Czerny-Liebling, Book II, and some of Heller Op. 45 and 47.
He should be able to play compositions such as Beethoven's
"Minuet in G," MacDowell's "To a Wild Rose," Beethoven's
"Contra Dance," sonatas by Mozart and Haydn.

PIANO 652, 653: Two hours per semester.

At the end of the third year he should be able to play

Bach's Two-Part Inventions Nos. 1, 8, 14 from memory and should have begun Czerny Op. 740. He should have studied compositions of such difficulty as Chopin's "Minute Waltz," "Valse in E Minor," and Mendelssohn's "Song Without Words."

PIANO 752, 753. Two hours per semester.

During the fourth year the student should acquire a technique sufficient to play scales in sixths and tenths and dominant and diminished seventh arpeggi in rapid tempo. He should study selections from Czerny Op. 740 and several of Bach's Three-Part Inventions. He should be able to play at sight simple accompaniments and hymn tunes.

For voice and instrumental majors and others desiring to obtain a minor in Piano.

Students not in the Music Department must also include Music 410, 411 with these courses.

2. VIOLIN

Entrance requirements to the violin course leading to the orchestra instructor's certificate.

The student should be able to play all major and minor scales in two octaves and the following scales in three octaves: G, A, and A-flat Majors, and g and a Minors. He should have studied five positions in finger technique. Suggested accomplishments in studies:

Sitt: Studies Op. 32, Book I and III.

Dont: Studies Op. 37.

Mazas: Special studies Op. 36, Book I.

Sevcik: School of Violin Technic Op. I.

Suggested accomplishment in solos:

Sietz: Concerto No. I.

Leonard: Six Solos Op. 41.

Massanet: Elegy.

Bohm: Danse Hongroise.

Godard: Berceuse from "Jocelyn."

All students majoring in violin are required to play in the Tech Symphony Orchestra regardless of the nature of the degree sought.

It is expected that all students intending to major in

violin should have had at least a year of previous study, covering scales, studies and pieces using the first, third and fifth positions.

Those who are deficient in entrance requirements may register for violin without credit and secure the necessary entrance level, the amount of non-credit study depending upon the progress made.

VIOLIN 450: *Freshman Violin.* Three hours. First semester.

Scales. Selected studies from Mazas Op. 36, Book I; Violin Technics by Sevcik: Selections from the Kreutzer Studies. Solos by Leonard, De Beriot, Sitt, Bohm. One sonata by Corelli Op. 5, Volume II. One concerto by Seitz, Viotti or De Beriot.

VIOLIN 451: *Freshman Violin.* Three hours. Second semester.

Scales in three octaves. Completion of the Mazas Studies, Op. 36, Book I. Selections from the Kreutzer Studies. Solos by Godard, Drdla, Saint-Saens, Borowski. One sonata by Corelli. One concerto by Viotti, Kreutzer or De Beriot.

VIOLIN 550: *Sophomore Violin.* Three hours. First semester.

Selections from the Kreutzer Studies and the Sitt Studies Op. 80, Book I. Solos by Bach, Beethoven, Ries, Wieniawski, Kreisler. One sonata by Corelli, Nardini, or Handel. One concerto by Bach, Kreutzer, or De Beriot.

VIOLIN 551: *Sophomore Violin.* Three hours. Second semester.

Selected studies by Kreutzer and Sitt. Solos by Bach, Brahms, De Beriot, Kreisler and others. One concerto by Bach, Mozart, or Rode.

VIOLIN 650: *Junior Violin.* Three hours. First semester.

Completion of the Kreutzer Studies. Selections from Fiorillo Caprices. Solos by classic and modern composers. Selections from the Bach Sonatas for violin alone. One concerto by Bach, Mozart or Godard.

VIOLIN 651: *Junior Violin.* Three hours. Second semester.

Selections from the Fiorillo Caprices. Selections from the Bach Sonatas for violin alone. Solos selected. One concerto by Mozart, Wieniawski, or the Mendelssohn in E minor.

VIOLIN 750: *Senior Violin*. Three hours. First semester.

Completion of the Fiorillo Caprices. Selections from the Rode Studies. Selections from the Bach Sonatas. One concerto: Mendelssohn, Wieniawski or Bruch. Selected solos by Vieuxtemps, Wieniawski, Sarasate, Kreisler and others.

VIOLIN 751: *Senior Violin*. Three hours. Second semester.

The work of this semester will be spent in building up a repertoire in preparation for the graduating recital. Selections must include as the special one a sonata by Handel or Bach, or of a concerto by Bach, Mendelssohn, Bruch, Lalo, Wieniawski, or Mozart.

VIOLIN 452, 453, 454, and 455. *Minor in Violin*.

Studies and selections according to the needs and degree of advancement of the individual student.

3. VOICE

It is recommended that voice majors show some knowledge of piano before entering voice work.

VOICE 450: *Freshman Voice*. Three hours. First semester.

Elementary instruction in breathing, tone placing, vowel formation. Tests: Concone (Fifty Lessons in Voice) begun.

VOICE 451: *Freshman Voice*. Three hours. Second semester.

Continuation of Voice 450.

VOICE 550: *Sophomore Voice*. Three hours. First semester.

Exercises for agility and for sustaining tone. Major and minor scales and arpeggi.

VOICE 551: *Sophomore Voice*. Three hours. Second semester.

Study of classic vocal embellishments, the recitative. The voice student must be able to sing at least one of the less exacting arias from opera and oratorio as well as several standard songs from memory.

VOICE 650: *Junior Voice*. Three hours. First semester.

Study of selections from the Anthology of Italian Songs, Volumes I and II, as well as some English, French and German songs and arias.

VOICE 651: *Junior Voice*. Three hours. Second semester.

Continuation of Voice 651.

VOICE 750: *Senior Voice*. Three hours. First semester.

Continuation of Voice 651.

VOICE 751: *Senior Voice*. Three hours. Second semester.

Intensive study of opera, oratorio and the best English, French, Italian and German song literature. The student must have a repertoire of at least four operatic arias, four oratorio arias, twenty classic and twenty standard modern songs. A graduation recital must be prepared and presented satisfactorily before credit may be received in this course.

VOICE 452, 453: (*For non-voice majors*). Two hours.

One private and one class lesson per week. Instruction in posture, breathing, tone placement and vowel formation.

VOICE 454, 455: (*For non-voice majors*). One hour.

Instruction in posture, breathing, tone placement, and vowel formation.

VOICE 552, 553: (*Sophomore voice for non-voice majors*). Two hours credit.

Technical studies continued, supplemented by the study of simple songs.

VOICE 554, 555: (*Sophomore voice for non-voice majors*). One hour.

Technical studies continued, supplemented by the study of simple songs.

VOICE 652, 653: (*Junior voice for non-voice majors*). Two hours credit.

Advanced technical study, supplemented by the study of songs of medium difficulty.

VOICE 654, 655: (*Junior voice for non-voice majors*). One hour.

Advanced technical study accompanied by songs of medium difficulty.

VOICE 752, 753: (*Senior voice for non-voice majors*). Two hours.

Technical studies continued, supplemented by study of a varied repertoire of songs.

VOICE 754, 755: (*Senior voice for non-voice majors*). One hour.

Vocal technique continued, supplemented by the study of a varied song repertoire.

4. BRASS, WOODWIND AND PERCUSSION

FIRST YEAR

MUSIC 450: Trumpet, Baritone, Trombone, Clarinet, Horn, Tuba, Percussion, or Saxophone.

MUSIC 451: A Continuation of Music 450. Three hours. Given both semesters.

SECOND YEAR

MUSIC 550: A Continuation of Music 451. Three hours. Given both semesters.

MUSIC 551: A Continuation of Music 550. Three hours. Given both semesters.

THIRD YEAR

MUSIC 650: A Continuation of Music 551, studying only the Trumpet, Trombone, Baritone, or Clarinet. Three hours. Given both semesters.

MUSIC 651: A Continuation of Music 650. Three hours. Given both semesters.

FOURTH YEAR

MUSIC 750: A Continuation of Music 651. Three hours. Given both semesters.

MUSIC 751: A Continuation of Music 750. Three hours. Given both semesters.

5. PIPE ORGAN

A limited number of interested students having the prerequisite pianistic ability may now study organ as a regular part of their college work regardless of whether or not they are music majors.

6. HARP

A limited number of students, either non-majors or majors in music, may study harp. Prerequisite, a satisfactory degree of proficiency in piano.

7. ENSEMBLES

BAND-O'-GLEE

This is a choral organization of women students of the three upper classes. It affords an excellent opportunity for the enjoyment of group singing of some of the best literature for women's voices. Public appearances of this group are popular events. Admission by tryout; two one-hour rehearsals a week. One hour credit per semester.

DRIVE-IN CHOIR

The Drive-in Choir is an excellent place for drive-in students to enjoy desirable social contacts while at the same time increasing their appreciation of good music. This organization makes several public appearances each year. One hour credit per semester.

FRESHMAN GIRLS' GLEE CLUB

Limited to freshman girls, this group varies considerably in size and quality from year to year. It is always a very valuable club and attracts many of the most capable girls of the freshman class. Admission by tryout; two one-hour rehearsals per week. One hour credit per semester.

GIRLS' BAND

The instrumentation of the Girls' Band has grown remarkably in the short time it has been organized. Girls who were proficient musicians in high school find this organization a means for developing their instrumental abilities further while at the same time enjoying desirable associations. Two one-hour rehearsals weekly. One hour credit per semester.

MEN'S GLEE CLUB

This club is open to any Tech men who like to sing. The music is restricted to numbers which are favorites with college male glee clubs the country over. Two one-hour rehearsals a week. One hour credit per semester.

TECH BAND

Membership is open to any student who can qualify upon application to and consultation with the director. Registration for band is held from 8 a. m. to 3 p. m. during the first day of registration. Special drills and tryouts will be held daily from 3 to 5 p. m. during registration week. The football trips the first semester and the concerts the second semester make the work both enjoyable and profitable. One hour credit per semester.

TECH CHOIR

This organization devotes most of its efforts to some of the major choral compositions for mixed voices. A considerable amount of its work is A Capella. Membership, which is by invitation only, is a matter of justifiable pride.

TECH SYMPHONY ORCHESTRA

Symphonic music is rapidly increasing in popularity. Most of the great masters did some of their best composing for symphony orchestra, and the most satisfying way of knowing this literature is by playing it.

Since strings are the foundation of a symphony, all who play stringed instruments are urged to join this organization. Two one-hour rehearsals weekly. One hour credit per semester.

Department of Physics

PATRICK D. NEILSON, PROFESSOR AND HEAD OF THE DEPARTMENT.
ASSOCIATE PROFESSOR H. E. RUFF.

REQUIREMENTS FOR A MINOR IN PHYSICS

(For students in other departments)

Students from other departments who elect a minor in physics should complete Physics 501, 502, and in addition thirteen semester hours in advanced courses.

DESCRIPTION OF COURSES

PHYSICS 501: *General Physics*. Four hours. First semester. (Neilson)

For engineers, pre-medical students, and all others with special interest in the subject.

Subjects: *Mechanics, Heat, and Sound*.

Prerequisites, Mathematics 401 and 402. Three hours of lecture and one three-hour laboratory period each week.

PHYSICS 502: *A continuation of Physics 501*. Four hours. Second semester. (Neilson)

Subjects: *Electricity, Magnetism, and Light*.

Prerequisites, Mathematics 401 and 402, Physics 501. Three hours of lecture, and one three-hour laboratory period each week.

PHYSICS 503: *A Short Course for Students of Agriculture*. Three hours. First and second semesters. (Ruff)

Subjects: *Heat Energy and Electrical Energy*. Three hours of lecture and demonstration each week.

PHYSICS 504: *A Brief Survey of Physics*. Three hours. First and second semesters. (Ruff)

For non-technical students. Three hours of lecture and demonstration each week.

PHYSICS 505: *Elementary Physics*. Three hours. First semester. (Ruff)

For non-technical students. Three hours of lecture and demonstration each week.

PHYSICS 506: *A continuation of Physics 505.* Three hours. Second semester. (Ruff)

For non-technical students. Three hours of lecture and demonstration each week.

PHYSICS 612: *Radio.* Four hours. First semester. (Neilson)

This course is offered to those students whose interest in the subject makes them wish to gain a thorough knowledge of, and familiarity with, the fundamental principles underlying radio. Prerequisite, Physics 502 or Engineering 401. Three hours of lecture and one three-hour laboratory period each week.

PHYSICS 614: *Radio.* A Continuation of Physics 612. Four hours. Second semester. (Neilson)

Three hours of lecture and one three-hour laboratory period each week. Prerequisite, Physics 612.

PHYSICS 630: *Modern Physics.* Four hours. First semester. (Ruff)

A second course in college physics designed to give the student a comprehensive knowledge of the modern developments of the subject. The course deals with a wide variety of important up-to-date subjects including the photoelectric effect, quantum theory, television, nuclear physics, cosmic rays, geophysics, and relativity. Prerequisites, Physics 502 and Mathematics 601. Three hours of lecture and one three-hour laboratory period each week.

PHYSICS 631: *Modern Physics continued.* Four hours. Second semester. (Ruff)

Three hours of lecture and one three-hour laboratory period each week. Prerequisite, Physics 630.

Department of Social Sciences

GARNIE W. MCGINTY, PROFESSOR AND HEAD OF THE DEPARTMENT
 HISTORY: PROFESSORS GARNIE W. MCGINTY, JOHN E. MCGEE; ASSOCIATE
 PROFESSOR J. O. VANHOOK; ASSISTANT PROFESSOR ROBERT W. MONDY.
 POLITICAL SCIENCE: ASSOCIATE PROFESSOR GEORGE E. PANKEY.
 SOCIOLOGY: ASSOCIATE PROFESSOR LAWRENCE J. FOX*; INSTRUCTOR ANNA
 GREENE SMITH.

REQUIREMENTS FOR A MAJOR IN SOCIAL SCIENCE

Students intending to major in Social Science are required to consult the Head of the Department of Social Sciences during the second semester of their sophomore year in college (and from time to time later, as may be necessary), for direction as to their major and minor courses of study during their junior and senior years.

RECOMMENDATIONS AND SUGGESTIONS

Students expecting to do graduate work should choose French as their foreign language. Students who expect to enter business will probably choose Spanish.

RECOMMENDATIONS FOR A MINOR IN THE DEPARTMENT OF SOCIAL SCIENCE

(FOR STUDENTS IN OTHER DEPARTMENTS)

HISTORY: History 401, 402, and 501, 502, plus nine hours of advanced History taken during the junior and senior years constitute a minor in History.

POLITICAL SCIENCE: Nine hours in addition to History 401, 402, 501, 502 chosen from the following constitute a minor: Political Science 501, 502, 603, 610, 612, and 614.

SOCIOLOGY: Nine hours in addition to History 401, 402, 501, 502 chosen from the following constitute a minor: Sociology 501, 502, 608, 610, 612, and 614.

DESCRIPTION OF COURSES

HISTORY

HISTORY 401: *History of the Western World to 1500.* Three hours. First and second semesters. (McGee, Van-Hook)

*On leave for military service.

After a glance at the life of pre-civilized man, an introductory study is made of the rise of Western civilization in the Ancient Near East, and of its development in the Mediterranean region and in Medieval Europe.

HISTORY 402: *History of the Western World since 1500*. Three hours. First and second semesters. (McGee, VanHook)

An attempt is made to trace the rise of mechanized industry, the growth of contemporary nationalism, the development and significance of modern imperialism, the extension of popular government, the progress of social reform, the birth of present-day thought and culture, and the emergence of existing international problems.

HISTORY 501: *History of the United States, 1492-1860*. Three hours. First and second semesters. (McGinty, Mondy)

A general survey course which emphasizes the social and political life of the later colonial period, the rise of the independence movement, the separation from England, the Confederation period, the establishment of the Federal government, the growth of democracy and the slavery question to 1860.

HISTORY 502: *History of the United States, 1860 to the present*. Three hours. First and second semesters. (McGinty, Mondy)

A study of the War Between the States, and of the new nation that has emerged since that sectional conflict. Emphasis is placed on the rise of the cotton kingdom, anti-slavery sentiment, reconstruction, the new industry, the settlement of the West, the growth of empire, the position of the United States in the World War and the after-war adjustments.

HISTORY 607: *Economic History of the United States*. Three hours. First semester. (McGinty)

A study of the economic forces and institutions in American life from colonial times to the present. Account is taken of the growth of population, territorial expansion, agriculture, labor, commerce, manufactures, tariff, finance, transportation, and communication.

HISTORY 609: *Economic Europe in the Machine Age*. Three hours. Second semester. (McGee)

The central theme of this course is the impact of the machine upon European economic life in the nineteenth and twentieth centuries.

HISTORY 620: *History of Europe from 1870 to 1914*. Three hours. First semester. Prerequisite, History 402 or the equivalent. (VanHook)

A study of political, economic, and social developments, with emphasis on political reform movements, the quest for social security, cultural trends, dynamic nationalism, and imperialistic rivalries.

HISTORY 621: *Europe Since 1914*. Three hours. Second semester. Prerequisite, History 402 or the equivalent. (VanHook)

This course embraces a study of the causes and consequences of World War I, problems arising from the peace treaties, quests for peace and economic security, resurging economic rivalries and power politics (the "haves" versus the "have-nots"), conflicting ideologies (democracy versus totalitarianism), the failure of appeasement, and World War II.

HISTORY 630: *The Intellectual and Cultural History of the Western World from the Earliest Times to the End of the Middle Ages*. Three hours. First semester. (McGee)

A survey is undertaken of the broad lines of development in the philosophical, religious, and scientific thought and in the literary and artistic achievement of primitive man, the peoples of the ancient Orient, the Greeks, the Romans, and the Europeans of the Earlier and Later Middle Ages. An endeavor is made to relate the various lines of development to each other and to society as a whole.

HISTORY 631: *The Intellectual and Cultural History of the Western World in Modern Times*. Three hours. Second semester. (McGee)

The course surveys the major trends in the science, philosophy, religious thought, social science, literature, and art of modern Westerners. The interdependence of the various

trends is disclosed as well as their common relationship to the state of society.

HISTORY 640: *Hispanic American History*. First semester. Three hours. (Van Hook)

This course is designed to foster an ever-growing interest in, and a better understanding of, the Hispanic American peoples. It is a survey of their political and socio-economic development from the colonial period to the present time, culminating in the study of current inter-American relations.

HISTORY 650: *The History of the American Frontier*. Three hours. (Mondy)

This course is an intensive study of life on the American frontier. It traces the movement of the frontier from the settlement of Jamestown to its disappearance in 1890. Emphasis is placed on the social and economic conditions and the frontier's influence on the older sections of the United States.

HISTORY 608: *The English-Speaking Peoples of Yesterday*. Three hours. First semester. (McGee)

This course describes the entrance of the English-speaking peoples upon the historical stage and discusses their role down to the end of the eighteenth century.

HISTORY 681: *The English-Speaking Peoples of Today*. Three hours. Second semester. (McGee)

This course surveys the historical role of the English-speaking peoples in the nineteenth and twentieth centuries.

HISTORY 700: *Diplomatic History of the United States to 1898*. Three hours. First semester. (VanHook)

Beginning with the colonial foundations of American diplomacy, this course surveys the foreign relations of the United States from the establishment of independence to emergence as a world power. It includes such topics as the machinery of diplomacy, the efforts of the young republic to maintain its sovereign status and its rights as a neutral, the Monroe Doctrine, territorial expansion, and the diplomatic problems pertaining to slavery and secession.

HISTORY 701: *American Diplomacy since 1898*. Three hours. Second semester. (VanHook)

This course emphasizes the development of the Isthmian-Caribbean policy of the United States, the trend of Far Eastern relations centering about the "Open Door," the World War and subsequent European relations of the United States, and the development of the "Good Neighbor" policy and the solidarity of American states.

HISTORY 705: *Recent History of the and the Far East and the Pacific Area*. Second semester. Three hours. (Van-Hook)

A study of geographical factors, the political organization and social institutions of China and Japan at the time of the foreign impact, foreign aggression and international rivalries in China, the establishment and maintenance of the "Open Door," the rise of modern Japan, the "New Order" in eastern Asia, and the war in the Pacific Area.

HISTORY 750: *History of the South*. Three hours. (McGinty)

A study of the growth and development of the South. Such factors as soil, climate, natural resources, and population will be noted and the influence they had in molding the peculiar way of life found in the South.

HISTORY 760: *History of Louisiana*. Three hours. (McGinty)

A study of French and Spanish explorations, establishment and growth of the French colony, the Spanish period, the Louisiana Purchase and the American period; a study of local conditions and federal relations.

HISTORY 765: *Recent American History*. Three hours. (McGinty)

This course is an intensive study of twentieth century development. It emphasizes the New Imperialism from 1898 and traces the development through the New Deal to the present.

POLITICAL SCIENCE

POLITICAL SCIENCE 501: *Government of the United States*. Three hours. First and second semesters. (Pankey)

A survey of the formation and development of the fed-

eral government and a study of such governmental problems and functions as those connected with the national congress, the courts, the cabinet, the president, political parties, elections, and administrative procedure.

POLITICAL SCIENCE 502: *Government of European Nations*. Three hours. (Pankey)

A survey of the formation and development of the more important European governments and a study of their governmental problems and functions in comparison with those of the United States. England, France, Germany, Italy, and Russia receive major attention.

POLITICAL SCIENCE 603: *State and Local Government in the United States*. Three hours. (Pankey)

A survey of the various functions, organs, and problems of public administration in the states and in their subdivisions. State legislatures, courts, governors, administrative officers, elections, etc., are studied. The legal and administrative relationships existing between a state and its subdivisions are examined. Major attention is given to state government.

POLITICAL SCIENCE 610: *Government and Business*. Three hours. (Pankey)

A course dealing with the control exercised by the federal government over business operations. Emphasis is placed upon control as exercised by the legislative and judicial branches of the government. Attention is given to the constitutional protection enjoyed by business organizations. The power of the government to regulate business under the commercial clause, the police power, the taxing power, and the due process of law clause of the Constitution are treated. Government participation in business is treated to a limited extent.

POLITICAL SCIENCE 612: *Public Administration*. Three hours. (Pankey)

A survey of general problems and principles of public administration. Structural problems: the separation of powers, the organization of administrative agencies, aerial problems of administration. Personnel problems: recruit-

ment, promotion, removal, classification, government employe unions. Financial problems: budgeting, auditing, purchasing, taxing, borrowing. Administrative law: growth and significance of administrative legislation and adjudication.

POLITICAL SCIENCE 614: *American Municipal Government*. Three hours. (Pankey)

A survey of the formation and development of governmental structure, theory, and functions in American municipalities. A careful analysis is made of existing municipal conditions, with special attention to city and town government in Louisiana.

SOCIOLOGY

SOCIOLOGY 501: *Principles and Elements of Sociology*. Three hours. First semester. Not open to freshmen. (Smith)

This course is designed to aid students in observing social phenomena and in recording their observations; also, to guide them in reading and interpreting the literature of the subject.

SOCIOLOGY 502: *Social Pathology*. Three hours. Second semester. Prerequisite, Sociology 501. (Smith)

In this course a study is made of the defective, dependent, and delinquent classes of society; of the conditions and factors contributing to the production and existence of these classes; and of the best methods of treating and caring for them.

SOCIOLOGY 505: *Sociology for the Home Maker*. Three hours. First semester. (Smith)

This course is intended primarily for Home Economics students. A study will be made of the fundamental principles of society, and the relationship of these to the home. Emphasis will be placed on the organization of family life and its bearing on the community, state, and nation.

SOCIOLOGY 604: *Social Psychology*. Three hours. First semester. Prerequisites, Psychology 402, or Psychology 502, Sociology 501. (Smith)

A study of the nature of social behavior, social stimula-

tion and response; a psychological analysis of society and social institutions.

SOCIOLOGY 608: *The Family*. Three hours. First semester. Prerequisites, Sociology 501, 502. (Smith)

A study is made of the various forms of family life that have been erected upon the biological foundation. Modern phases of the problem of the adaptation of the family to the varied conditions of urban and rural environments.

SOCIOLOGY 610: *Rural-Urban Sociology*. Three hours. First semester. Prerequisites, Sociology 501, 502. (Smith)

This is a study of the genetic and historical development of rural and urban groups of isolation, contact, and accommodation in these environments. Attention is given to the influence of economic, religious, physical, and cultural factors upon the traditions and attitudes of the members of these groups.

SOCIOLOGY 612: *Racial Problems*. Three hours. Second semester. Prerequisites, Sociology 501, 502. (Smith)

A study of the ethnological, physiological, and psychological racial differences; of the concept, isolation, assimilation, amalgamation, nationality, race pride and race prejudice.

SOCIOLOGY 614: *Criminology*. Three hours. Second semester. Prerequisite, Sociology 501. (Smith)

An analysis of the nature and causative factors leading to crime, a history of its treatment, and a comparative study of present methods of dealing with the criminal.

SCHOOL OF BUSINESS ADMINISTRATION AND ECONOMICS

AMOS W. FORD, *Dean*

ACCOUNTING: ASSOCIATE PROFESSOR LOUIS M. PHILLIPS; ASSISTANT PROFESSOR HAROLD J. SMOLINSKI.
COMMERCE: ASSOCIATE PROFESSOR LAWRENCE W. DIXON; ASSISTANT PROFESSOR ROBERT LANE FULLER.
ECONOMICS: ASSOCIATE PROFESSOR AMOS W. FORD; ASSISTANT PROFESSOR LOUIS M. O'QUINN*.
SECRETARIAL SCIENCE: ASSOCIATE PROFESSOR LUCILLE CAMPBELL; INSTRUCTOR KERMIT KNIGHTON; ACTING INSTRUCTOR ANNA WILCOX MITCHELL.

PURPOSE

As an institution for vocational training, Louisiana Polytechnic Institute has the responsibility of doing its part toward a solution of the nation's business and economic problems. Thus the School of Business Administration and Economics has four major objectives: (1) to provide a high quality of business training for students seeking a business career; (2) to prepare young men and women for employment in business, in office work, and in secretarial positions in the civil service; (3) to prepare teachers for teaching commercial subjects in high schools; and (4) to promote and stimulate student interest in the national economic life in order to contribute intelligently to a solution of the economic ills.

CURRICULA

The School of Business Administration and Economics offers four basic curricula. The General Business curriculum, the Accounting curriculum, and the Secretarial Science curriculum lead to the Bachelor of Science degree; and the Economics curriculum leads to the Bachelor of arts degree.

Students taking the Accounting Curriculum are offered four years of accounting practice, which qualifies them to accept accounting positions or to proceed with further study toward the C.P.A. examination. The General Business curriculum requires only three years of accounting, with two years of typing, thus equipping the student with a well-

*On leave of absence, session of 1942-43.

Bus.
Admin.

balanced business education. A business-machine room has been provided, affording training in the use of adding, billing, and posting machines, calculating machines, and other machines that are found in typical business experience.

The Secretarial Science curriculum provides two years of typing and three years of stenography. Qualifying examinations for employment in numerous governmental agencies are now given on the campus.

The Economics curriculum is designed to train students either for graduate study or for service as government economists.

All students follow the same course of study through the freshman year. At the beginning of the sophomore year, the student must select the curriculum in which he is most interested. A transfer, however, may be made from one curriculum to another at the beginning of the junior year without loss of credit.

REQUIREMENTS FOR A MINOR IN COMMERCE

(For students in other departments)

Students from other departments may minor in commerce by taking twelve semester hours above the sophomore year. No course numbered below 600 will be allowed to count on the minor.

REQUIREMENTS FOR A MINOR IN ECONOMICS

(For students in other departments)

Students from other departments may minor in economics by taking twelve semester hours in economics chosen from the following courses: Economics 501, 502, 608, 610, 612, 614, 618, 629, 640. To apply on a minor, such courses must be taken above the sophomore year.

REQUIREMENTS FOR A TEACHER'S CERTIFICATE IN COMMERCE OR ECONOMICS

Students who wish to qualify for teaching commerce in state high schools may do so by electing Psychology 501 and 502, Education 605, Commerce 606, practice teaching in two commercial subjects, and five hours of health and physical education in addition to the four hours required of all students.

SCHOOL OF BUSINESS ADMINISTRATION AND ECONOMICS 151

Students majoring in economics who wish to qualify to teach in state high schools may do so by electing Psychology 501, 502, Education 605, 606, 708-9, and five hours of Health and Physical Education in addition to the four hours required of all students. Psychology 501 and 502 are to be taken in the sophomore year, Education 605 and 606 in the junior year, and Education 708-9 in the senior year.

ACCOUNTING CURRICULUM

(LEADING TO B. S. IN BUSINESS ADMINISTRATION)

FRESHMAN YEAR		Semester Hours
Biology 401, 402; or Chemistry 407, 408; or Physics 505, 506	8 or 6	
English 401, 402	6	
Mathematics 419, 420	6	
History 401, 402; or 501, 502; or Political Science 501, 502	6	
Commerce 501, 502	4	
Physical Education	2	
Orientation	1	
Total semester hours		31-33
SOPHOMORE YEAR		Semester Hours
Commerce 401, 402	8	
English 501, 502	6	
Economics 501, 502	6	
Commerce 510	3	
Speech 410	3	
Physical Education	2	
Electives	3 or 5	
Total semester hours		31-33
JUNIOR YEAR		Semester Hours
Commerce 650, 651	6	
Commerce 620, 625	6	
Economics 610, 612; or 614, 629	6	
Mathematics of Business 619, 620	6	
Electives	9	
Total semester hours		33
SENIOR YEAR		Semester Hours
Commerce 700, 701	6	
Commerce 703, 704	6	
Commerce 645, 646	6	
Commerce 605	3	
Commerce 705	2	
Electives	10	
Total semester hours		33
TOTAL hours for graduation		130

GENERAL BUSINESS CURRICULUM

(LEADING TO B. S. IN BUSINESS ADMINISTRATION)

FRESHMAN YEAR		Semester Hours
Biology 401, 402; or Chemistry 407, 408; or Physics 505, 506	8 or 6	
English 401, 402	6	
Mathematics 419, 420	6	
History 401, 402; or 501 502; or Political Science 501, 502	6	
Commerce 501, 502	4	
Physical Education	2	
Orientation	1	
Total semester hours		31-33

SOPHOMORE YEAR		Semester Hours
Commerce 401, 402.....		8
Commerce 503, 504.....		4
Commerce 510.....		3
English 501, 502.....		6
Economics 501, 502.....		6
Speech 410.....		3
Physical Education.....		2
Total semester hours.....		32
JUNIOR YEAR		Semester Hours
Commerce 650, 651.....		6
Commerce 620, 625.....		6
Mathematics of Business 619, 620.....		6
Economics 610, 612.....		6
Electives.....		9
Total semester hours.....		33
SENIOR YEAR		Semester Hours
Commerce 700, 701.....		6
Commerce 645, 646.....		6
Commerce 605.....		3
Commerce 705.....		2
Economics 614, 629.....		6
Electives.....		9 or 11
Total semester hours.....		32-34
TOTAL hours for graduation.....		130

SECRETARIAL SCIENCE CURRICULUM

(LEADING TO B. S. IN BUSINESS ADMINISTRATION)

FRESHMAN YEAR		Semester Hours
Biology 401, 402; or Chemistry 407, 408; or Physics 505, 506	8 or 6	
English 401, 402.....		6
Mathematics 419, 420.....		6
History 401, 402; or 501 502; or Political Science 501, 502.....		6
Commerce 501, 502.....		4
Physical Education.....		2
Orientation.....		1
Total semester hours.....		31-33
SOPHOMORE YEAR		Semester Hours
Commerce 401, 402.....		8
Commerce 503, 504.....		4
Commerce 601, 602.....		6
English 501, 502.....		6
Physical Education.....		2
Psychology 501, 502*.....		6
Total semester hours.....		32
JUNIOR YEAR		Semester Hours
Commerce 603, 604.....		8
Commerce 650, 651.....		6
Commerce 620 or 625.....		3
Economics 501, 502.....		6
Speech 510.....		3
Electives.....		6 or 8
Total semester hours.....		32-34

SCHOOL OF BUSINESS ADMINISTRATION AND ECONOMICS 153

Commerce 645, 646.....	6
Commerce 605.....	3
Commerce 607, 608.....	4
Economics 614, 629.....	6
Commerce 705.....	2
Art 564c.....	3
Electives.....	9
Total semester hours.....	33
TOTAL hours for graduation.....	130

* Students wishing to qualify for teachers' certificate should take Education 605 and Commerce 606 in the junior year, and practice teaching in the senior year.

ECONOMICS CURRICULUM
(LEADING TO B. S. IN ECONOMICS)

FRESHMAN YEAR	Semester Hours
English 401, 402.....	6
History 401, 402.....	6
Biology 401, 402; or Chemistry 401, 402; or Physics 505, 506 8 or 6	6
Mathematics 419, 420.....	6
Commerce 501, 502.....	4
Physical Education.....	2
Orientation.....	1
Total semester hours.....	31-33

SOPHOMORE YEAR	Semester Hours
English 501, 502.....	6
History 501, 502 or Political Science 501, 502.....	6
Psychology 501, 502.....	6
Economics 501, 502.....	6
Foreign Language.....	6
Physical Education.....	2
Total semester hours.....	32

JUNIOR YEAR	Semester Hours
Economics 608, 610.....	6
Economics 612, 614.....	6
Commerce 401, 402.....	8
Mathematics of Business 619, 620.....	6
Electives to apply on minor.....	6 or 8
Total semester hours.....	32-34

SENIOR YEAR	Semester Hours
Economics 629, 618.....	6
Economics 618, 640.....	6
Electives to apply on minor.....	12
Other electives.....	9
Total semester hours.....	33
TOTAL hours for graduation.....	130

DESCRIPTION OF COURSES

ACCOUNTING

COMMERCE 401: *Elements of Accounting*. Four semester hours. Three lecture and two laboratory hours. First semester. Prerequisites, Mathematics 419, 420. (Phillips and Smolinski)

Uses of accounting; interpretation of financial statements; sole ownership and partnership.

COMMERCE 402: *Elements of Accounting*. Four semester hours. Three lecture and two laboratory hours. Second semester. Prerequisite, Commerce 401. (Phillips and Smolinski)

Continuation of Commerce 401; partnership and corporations.

COMMERCE 650: *Cost Accounting*. Three semester hours. Three lectures. First semester. Prerequisite, Commerce 402. (Phillips and Smolinski)

A study of cost systems; bookkeeping and accounting peculiar to manufacturing enterprises; making cost statements; and solving cost problems.

COMMERCE 651: *Intermediate Accounting*. Three semester hours. Three lectures. Second semester. Prerequisite, Commerce 402. (Phillips and Smolinski)

A more detailed study of sole ownership; partnership and corporations; problems; and financial statements.

COMMERCE 700: *Advanced Accounting*. Three semester hours. Three lectures. First semester. Prerequisites, Commerce 650, 651. (Phillips)

A study of higher accountancy; problems met in practical accounting; solution of numerous problems outside of class.

COMMERCE 701: *Advanced Accounting*. Three semester hours. Three lectures. Second semester. Prerequisite, Commerce 700. (Phillips)

A continuation of Commerce 700.

COMMERCE 703: *Auditing*. Three semester hours. Three lectures. Second semester. Prerequisites, Commerce 650, 651. (Smolinski)

Auditing procedure; balance sheet and detailed audits; special investigation; working papers and reports.

COMMERCE 704: *Income Tax*. Three semester hours. Three lectures. Second semester. Prerequisites, Commerce 650, 651. (Smolinski)

A study of federal and state income laws; relations to business management, and to accounting principles and practices; solution of problems; practice in making income tax statements.

COMMERCE 705: *Machine Accounting*. Two semester hours. One lecture and three laboratory hours. First and second semester. Prerequisite, senior standing. (Smolinski)

Instruction and practice are given in the use of the various types of accounting machines, including different models of calculating machines, adding machines, billing and posting machines, etc., which may be found in the typical business office.

GENERAL BUSINESS

COMMERCE 510: *Business Organization and Combination*. Three semester hours. Three lectures. First semester. (Dixon)

This course aims to acquaint the student with the fundamental principles of business and to furnish a background for other commerce courses that will follow. Various types of business enterprises are studied with special reference to the corporate form of organization. Recent legislation which affects business concerns will receive due emphasis.

COMMERCE 605: *Business English*. Three semester hours. Three lectures. Second semester. Prerequisites, English 401, 402, Commerce 501, 502. (Dixon)

A study of the principles and rules of standard English as applied to business communication. Practice in analyzing and composing all types of practical business letters, such as letters of application, adjustment, inquiry, collection, and sales letters. Being able to typewrite is an essential requirement for the course.

COMMERCE 620: *Business Advertising*. Three semes-

ter hours. Three lectures. Second semester. Prerequisites, Commerce 401, 402, and Economics 501, 502. (Dixon and Fuller)

A study of the principles of advertising, thus enabling the student to appraise their effectiveness as marketing tools. Attention given to the economic aspects of advertising with reference to cost, types of media, research, and organization.

COMMERCE 625: *Salesmanship*. Three semester hours. Three lectures. First semester. Prerequisites, Commerce 401, 402, and Economics 501, 502. (Dixon)

The following are considered: The salesman, merchandise, the customer, and human nature in general. Emphasis placed on personality development. The tactful manner for selling services, ideas, or merchandise is explained and stress laid on the importance of proper approach, convincing argument, overcoming barriers, and closing the sale.

COMMERCE 630: *Insurance*. Three semester hours. Second semester. Prerequisites, Commerce 401, 402, and Economics 501, 502. (Dixon)

A study of the principles and the social values underlying all types of insurance, such as life, fire, casualty, and marine.

COMMERCE 640: *Office Management*. Three hours. First semester. Prerequisites, Commerce 401 and 402.

The physical needs of a business office are studied. Attention is given to office layout, equipment, personnel, organization of the different departments, preparing reports, and the problem of selecting and promoting office employees.

COMMERCE 645, 646: *Business Law*. Three semester hours each. Three lecture. First and second semesters. Prerequisites, Commerce 401, 402, and Economics 501, 502. (Dixon and Fuller)

A course designed to familiarize students with the legal aspects of business transactions. Subjects considered are: contracts, sales, agency, property, negotiable instruments, suretyship, bailments, carriers, insurance, partnership, corporation, torts, and business crimes.

SECRETARIAL

Candidates for degrees in Secretarial Science will be required to take at least one semester of shorthand and typewriting at this institution regardless of the amount of credit in these subjects they have earned elsewhere.

COMMERCE 501: *Elementary Typewriting*. Two semester hours credit. Five hours a week. First and second semesters. (Knighton)

This course is planned for beginners and includes constant practice in touch typewriting for mastery of the keyboard, operating the typewriter parts, and writing connected matter. Students presenting entrance credit in typewriting will receive no credit for this course. They should register for Commerce 502. Placement tests will be given students presenting entrance credit and to transfer students.

COMMERCE 502: *Intermediate Typewriting*. Two semester hours credit. Five hours a week. First and second semesters. Prerequisite, Commerce 501 or the equivalent. (Knighton)

This course is planned to develop greater skill in operating the typewriter and will include the development of accuracy and speed in writing connected matter. Practice is given in the typewriting of different types of business letters.

COMMERCE 503: *Advanced Typewriting*. Two semester hours credit. Five hours a week. First semester. Prerequisites, Commerce 501, 502. (Knighton)

This course is planned to develop greater technical skill. Practice is given in the typewriting of various types of business documents.

COMMERCE 504: *Advanced Typewriting*. Two semester hours credit. Five hours a week. (Knighton)

A continuation of Commerce 503, with emphasis placed upon commercial papers most used in modern business.

COMMERCE 601: *Shorthand (Elementary)*. Three semester hours credit. Five hours a week. First semester. (Campbell)

A course for beginners in Gregg Shorthand. Practice is given in reading and writing shorthand. Students who

have had shorthand in high school will register for the second semester of first-year shorthand, Commerce 602. If they are unable to do satisfactory work in Commerce 602, they will be required to take the first semester, Commerce 601, without credit. Students will have the opportunity of taking a placement test to determine which course they are best prepared to enter.

COMMERCE 602: *Shorthand* (Intermediate). Three semester hours credit. Five hours a week. Second semester. Prerequisite, Commerce 601. (Campbell)

A continuation of Commerce 601 with emphasis on the development of speed in reading and dictation.

COMMERCE 603: *Dictation and Transcription*. Four semester hours credit. Five hours a week. Prerequisites, Commerce 504, 602. (Campbell)

This course is planned to develop a high degree of speed in taking dictation and in transcription.

COMMERCE 604: *Advanced Dictation and Transcription*. Four semester hours credit. Five hours a week. (Campbell)

A continuation of Commerce 603.

COMMERCE 606: *Methods and Materials in Teaching Commerce Subjects*. Three semester hours. Three lecture hours. Second semester. (Dixon)

A study of the introduction and growth of commercial education. Emphasis given to the consideration of a commercial teacher's problems, curriculum construction, and methods of teaching.

COMMERCE 607: *Secretarial Practice*. Two semester hours. First semester. Prerequisite, Commerce 604. Open only to seniors who are majoring in secretarial science. (Campbell)

The purpose of this course is to give the student a broader knowledge of the duties of a secretary and to provide practice in secretarial activities. It will afford opportunity for the further development of skill in shorthand and typewriting. It will provide practice in the filing of correspondence; in the use of duplicating machines; the handling of business

reference books; and the development of desirable secretarial traits.

COMMERCE 608: *Secretarial Practice*. Two semester hours. Second semester. Prerequisite, Commerce 604. Open only to seniors who are majoring in secretarial science. (Campbell)

ECONOMICS

ECONOMICS 501: *Introduction to Economics*. Three hours. Three lectures. Not open to freshmen. (Ford and O'Quinn)

A survey is made of economic terms; forms of business enterprise; forms and tactics of labor organizations; insurance; population problems; and development and control of money, credit, and banking.

ECONOMICS 502: *Introduction to Economics*. Three hours. Three lectures. Prerequisite, Economics 501. (Ford and O'Quinn)

A continuation of Economics 501. Further study is made of our system of free business enterprise, marketing, business fluctuations, index numbers, and forms of taxation; analysis is made of economic thought leading to our present economy, and examination made of other economic systems.

ECONOMICS 505: *Economics for the Household*. Three hours. Three lecture hours. Open to home economics students only. Second semester. (Ford)

Factual organization, investments and savings, stocks and bonds, life insurance, marketing, costs of living, price indexes, money, banking, credit, and the business cycle.

ECONOMICS 608: *Labor Problems*. Three hours. Three lectures. Prerequisite, Economics 502. First semester. (O'Quinn)

The historical, descriptive, legal, and theoretical aspects of the employer-employee conflict in the United States are placed into a pattern of economic thought that gives organization to the facts.

ECONOMICS 610: *Public Finance*. Three hours. Prerequisite, Economics 502. Three lectures. Second semester. (O'Quinn)

First, a critical appraisal is made of the so-called "general principles and practices" relative to governments' income and out-go of money; and, second, an analysis is made of both the State's and the Nation's current public-finance affairs.

ECONOMICS 612: *Money and Banking*. Three hours. Prerequisite, Economics 502. Three lectures. First semester. (Ford)

The essentials of a sound money and banking structure receive close attention. A study is made of negotiable instruments, commercial paper, stocks and bonds, investment banking; likewise the place of building and loan associations, Morris plan banks, farm credit institutions, and the Federal Reserve System are given close examination.

ECONOMICS 614: *Investments*. Three hours. Three lectures. Prerequisite, Economics 502. (Ford)

Investigation is made of the various types of stocks and bonds available for investment purposes; the prerequisites of a sound investment program; analysis of business factors; operating ratios of corporations. A trial program of practical benefit is offered each student during the course, to permit a diversified experience with leading securities on the market.

ECONOMICS 616: *Contemporary World Problems*. Three semester hours. Three lectures. (Ford)

Designed for students wishing an organized picture of current world events and problems. Special study is made of social security, the labor movement, the farm problem, the government lending-spending program, current taxation policies, our foreign policy, changes in philosophy and functions of government. Consideration is also given to European countries, the conflict between democracy and totalitarianism, the consumer cooperative movement abroad, and other current trends.

ECONOMICS 618: *Corporation Finance*. Three semester hours. Three lectures. Prerequisites, Economics 501 and 502. (Ford)

A survey is made of the process of organizing, managing,

and expanding corporate organizations. Attention is given to the various types of stocks and bonds which a corporation may issue; to its financial policies, and to its growth and development. Further consideration is given to mergers, consolidations, holding companies, business trusts, and other steps of business expansion.

ECONOMICS 629: *Principles of Marketing*. Three hours. Three lectures. Prerequisites, Economics 501 and 502. (Ford)

Designed primarily for commerce students and others interested in our general marketing set-up. Study is made of wholesalers and retailers, auctions, direct marketing, mail-order houses, chain-stores, speculative markets, consumers' cooperatives, and other institutions for distributing goods and services. Emphasis is placed on consideration of lowering costs of marketing.

ECONOMICS 640: *Development of Economic Thought*. Three hours. Three lectures. Prerequisite, six hours of advanced economics or the instructor's permission. Second semester. (O'Quinn)

A survey is made (description and critical appraisal) of man's thought on economic matters from the ancient period to the present day.

SCHOOL OF EDUCATION

GUSTAF FREDEN, Dean

Department of Education

GUSTAF FREDEN, PROFESSOR AND HEAD OF THE DEPARTMENT.
ASSOCIATE PROFESSORS THOMAS A. GREEN, GEORGE C. PORET, R. L. VINING,
MARY C. WILSON**; ASSISTANT PROFESSORS ROBERT H. MOUNT*, DENNIS
P. NOAH*; CRITIC TEACHERS MARY B. JARRELL (FIRST GRADE), CORA
ETHEL WASHBURN (SECOND GRADE), KATHERINE BUTLER (THIRD
GRADE), FLORA MAE CUNNINGHAM (FOURTH GRADE), ORA V.
WATSON (FIFTH GRADE), LEOLA RODGERS (SIXTH GRADE),
BERNICE O'NEAL (SEVENTH GRADE); THESTA WALKER,
LIBRARIAN.

Louisiana Polytechnic Institute is one of the colleges approved by the State Board of Education for the professional preparation of teachers. Through its School of Education Tech offers its fullest co-operation to the State Board of Education in giving the schools of the state professionally trained teachers.

The School of Education is organized into four curricula leading to the baccalaureate degree in education. Each curriculum is designed to prepare for a specific type of teaching service. Therefore, the new students enrolling in the School of Education should consult the Dean for advice in choice of a curriculum.

Students who complete a four-year curriculum are granted the bachelor's degree and are entitled to teach in any approved high school in the state; and to teach in any of the accredited schools belonging to the Association of Colleges and Secondary Schools of the Southern States.

PRACTICE TEACHING

For the students who are preparing to teach in the elementary grades there is conducted on the campus a well-equipped and officered elementary school. The work of this school conforms with the course of study of the elementary schools as prescribed by the State Department of Education of Louisiana.

*On leave for military service.

** On leave for graduate study.

For students who are preparing to teach in the high school, arrangements will be made for practice teaching in the Ruston high school, or in high schools of other towns.

By a recent ruling of the State Board of Education (March 12, 1940), students who are preparing to teach in the high school will, with the beginning of the fall semester of 1943, do their practice teaching out in the field. They will spend one whole semester in serving this internship, and no other college courses will be carried during this time. The student is expected to do this practice teaching during the senior year, preferably in the *first* semester of that year. Present juniors and seniors may, (in exceptional cases), follow the curricula as presented in the 1942-1943 catalogue. If so, they are strongly advised to carry no more than a total of *fifteen hours* of work while doing their practice teaching.

A student to be assigned practice teaching must up to that time have earned at least a *grade average of C*.

ENGLISH-FOREIGN LANGUAGES CURRICULUM

FRESHMAN YEAR		Semester Hours
Biology 401, 402: Animal and Plant Biology.....		8
English 401, 402: Freshman Composition.....		6
Foreign Language.....		6
Freshman Orientation.....		1
Mathematics 405, 406: General Mathematics.....		6
Physical Education: Select two from 412-417.....		2
Speech 410: Principles of Speech.....		3
Total semester hours.....		32
SOPHOMORE YEAR		Semester Hours
Education 500: Foundations of Education.....		3
English 501, 502: English and American Literature.....		6
Foreign Language.....		6
History 501: United States History.....		3
Physical Education: Select one from 530, 540, 560, 561, and one from 570, 582.....		2
Psychology 501, 502: General and Educational, Mental Hygiene		6
Science: Physics 505, 506, or Chemistry 407, 408.....		6 or 8
Total semester hours.....		32 or 34
JUNIOR YEAR		Semester Hours
Education 605, 606: Secondary Education.....		6
English 632: Advanced English Grammar.....		3
English: Senior College English.....		3
Foreign Language.....		6
History 502: United States History.....		3
Library Science 600, 601: School Libraries.....		4
Physical Education 500: Health and Safety Education.....		3
Social Science: Economics, Geography, Political Science, Sociology.....		6
Total semester hours.....		34

SENIOR YEAR		Semester Hours
Education 712: Observation and Practice Teaching.....	12	
English: Senior College English.....	6	
Foreign Language.....	6	
Library Science 602: Adolescent Literature.....	2	
Physical Education 621: First Aid.....	1	
Total semester hours.....		27
TOTAL semester hours in curriculum.....		125-127

ENGLISH-SOCIAL SCIENCE CURRICULUM

FRESHMAN YEAR		Semester Hours
Biology 401, 402: Animal and Plant Biology.....	8	
English 401, 402: Freshman Composition.....	6	
Freshman Orientation.....	1	
History 401, 402: European History.....	6	
Mathematics 405, 406: General Mathematics.....	6	
Physical Education: Select two from 412-417.....	2	
Speech 410: Principles of Speech.....	3	
Total semester hours.....		32

SOPHOMORE YEAR		Semester Hours
Education 500: Foundations of Education.....	3	
English 501, 502: English and American Literature.....	6	
History 501, 502: United States History.....	6	
Physical Education: Select one from 530, 540, 560, 561, and select one from 570-582.....	2	
Psychology 501, 502: General and Educational, Mental Hygiene.....	6	
Science: Physics 505, 506, or Chemistry 407, 408.....	6 or 8	
Elective.....	3	
Total semester hours.....		32 or 34

JUNIOR YEAR		Semester Hours
Education 605, 606: Secondary Education.....	6	
English: Senior College English.....	6	
Library Science 600, 601: School Libraries.....	4	
Physical Education 500: Health and Safety Education.....	3	
Social Science: Economics, Geography, Sociology, Political Science.....	6	
Elective.....	9	
Elective.....	9	
Total semester hours.....		34

SENIOR YEAR		Semester Hours
Education 712: Observation and Practice Teaching.....	12	
English 632: Advanced English Grammar.....	3	
English: Senior College English.....	3	
Library Science 602: Adolescent Literature.....	2	
Physical Education 621: First Aid.....	1	
Social Science: Economics, Geography, Political Science, Sociology.....	6	
Total semester hours.....		27
TOTAL semester hours in curriculum.....		125-127

SCIENCE-MATHEMATICS CURRICULUM

FRESHMAN YEAR		Semester Hours
Biology 401, 402: Animal and Plant Biology.....		8
English 401, 402: Freshman Composition.....		6
Freshman Orientation		1
Mathematics 401, 402: Algebra, Trigonometry.....		6
Physical Education: Select two from 412-417.....		2
Social Science: Economics, Geography, Political Science, Sociology		6
Speech 410: Principles of Speech.....		3
Total semester hours		32
SOPHOMORE YEAR		Semester Hours
Education 500: Foundation Education.....		3
English 501, 502: English and American Literature.....		6
History 501: American History.....		3
Mathematics		6
Physical Education: Select one from 530-540 560-561 and one from 570-582.....		2
Psychology 501, 502: General and Education, Mental Hygiene..		6
Science: Physics 501, 502.....		8
Total semester hours		34
JUNIOR YEAR		Semester Hours
Education 605, 606: Secondary Education.....		6
History 502: American History.....		3
Mathematics		6
Physical Education 500: Health and Safety Education.....		3
Science: Chemistry 401, 402: General Chemistry.....		8
Elective		8
Total semester hours.....		34
SENIOR YEAR		Semester Hours
Education 712: Observation and Practice Teaching.....		12
Mathematics: Senior College Mathematics.....		6
Physical Education 621: First Aid.....		1
Elective: Science and, or, Mathematics.....		8
Total semester hours		27
TOTAL semester hours in curriculum.....		127

ELEMENTARY GRADE CURRICULUM

FRESHMAN YEAR		Semester Hours
Art 401, 402, or Music 401, 402. (If Art is selected Music must be taken in Sophomore Year).....		4
Biology 401, 402: Animal and Plant Biology.....		8
English 401, 402: Freshman Composition.....		6
Freshman Orientation		1
Geography 425, 427: Principles of Geography, Geography of Louisiana		6
Mathematics 405, 406: General Mathematics.....		6
Physical Education: Select two from 412-417.....		2
Total semester hours		33

SOPHOMORE YEAR		Semester Hours
Art 401, 402, or Music 401, 402.....	4	
Education 500: Foundations of Education.....	3	
English 501, 502: English and American Literature.....	6	
History 501, 502: American History.....	6	
Physical Education 430, 520.....	2	
Psychology 501, 502: General and Educational, Mental Hygiene.....	6	
Science: Physics 505, 506, or Chemistry 407, 408.....	6 or 8	
Total semester hours.....		33-35
JUNIOR YEAR		Semester Hours
Art 501: Advanced Art Education.....	2	
Education 501: Principles of Teaching in the Elementary Grades.....	3	
Education 502: General Methods of Teaching in the Lower Elementary Grades (For Upper Grades register for Education 503).....	3	
Education 680: Nature Study.....	3	
English 632: Advanced English Grammar.....	3	
Music 630: Music Appreciation.....	2	
Physical Education 500: Health and Safety Education.....	3	
Physical Education 640: Material and Methods in Physical Education.....	2	
Speech 410: Principles of Speech.....	3	
Speech 620: Story Telling and Children's Literature.....	3	
Elective.....	6	
Total semester hours.....		33
SENIOR YEAR		Semester Hours
Education 504: History and Philosophy of Education.....	3	
Education 507: Visual Education.....	3	
Education 710: Observation and Practice Teaching.....	12	
History 760: Louisiana History.....	3	
Physical Education 621: First Aid.....	2	
Physical Education 641: Methods and Materials in Health and Safety Education.....	2	
Elective.....	3	
Total semester hours.....		28
TOTAL semester hours in curriculum.....		127-129

DESCRIPTION OF COURSES

EDUCATION

EDUCATION 500: *Foundations of Education*. Three hours. Both semesters. Prerequisite, sophomore standing.

A course designed to help the student find himself in the profession of teaching, and to develop in him a professional attitude.

EDUCATION 501: *Principles of Teaching in the Elementary Grades*. Three hours. First and second semesters. Prerequisite, Psychology 502. (Rodgers)

A course for the study of such topics as: Objectives in

teaching, organization of subject matter, types of lessons, the recitation, lesson planning, problems in class control, etc.

EDUCATION 502: *Methods of Teaching in the Lower Elementary Grades*. Three hours. First and second semesters. Prerequisite, Psychology 502. (Butler)

A critical treatment of materials and methods in instruction in the lower elementary grades.

EDUCATION 503: *Methods of Teaching in the Upper Elementary Grades*. Three hours. First and second semesters. Prerequisite, Psychology 502. (Butler)

A critical treatment of materials and methods of instruction in the upper elementary grades.

EDUCATION 504: *History and Philosophy of Education*. Three hours. Second semester. (Green)

A study of the religious, political, economic, industrial, and other social influences which gave rise to our present concepts and practice in education.

EDUCATION 507: *Use of Audio-Visual Aids in the Classroom*. Three hours. (Mount)

Members of the class will study the operation and use of the lantern slide, film strip, opaque and motion picture projectors. Particular stress will be placed on the effective use of visual aids in the classroom. Teaching films in the Tech Film Library will be reviewed and evaluated.

EDUCATION 520: *Tests and Measurements in the Elementary School*. Three hours. Prerequisite, Psychology 502. (Noah)

A study of the aims, needs, and administration of the standardized and new-type tests for measuring the product of teaching in the elementary grades.

EDUCATION 529: *The Teacher as a Citizen*. Three hours. (Green)

The aim of this course is to bring the prospective teacher into a closer awareness of civic affairs of interest to all thinking citizens. Problems are considered such as those pertaining to family life, industry, rural living, health, recreation, the influence of propaganda, and current affairs.

EDUCATION 605: *Secondary Education*. Three hours. Both semesters. Prerequisite, Psychology 502. (Vining, Green)

The study of the historical development of American Secondary Education, and a survey of its present status. Emphasis is placed upon philosophical interpretation. Brief attention is given to European secondary education, and the Louisiana system of secondary education is studied carefully.

EDUCATION 606: *Secondary Education*. Three hours. Both semesters. Prerequisite, Psychology 502. (Green, Poret)

The aim of this course is to acquaint the prospective high school teacher with procedures and techniques which apply generally to high school teaching.

EDUCATION 611: *Tests and Measurements in the Secondary School*. Three hours. Prerequisite, Psychology 502.

A course designed to acquaint the student with the principles and administration of standardized and new-type examinations. Special stress is laid on modern methods of constructing tests for use in one's own classroom.

EDUCATION 615: *Administration and Supervision*. Three hours. Prerequisites, for students interested in the high school, Education 605 and 606; for students interested in the elementary school, Education 502 or 503. (Vining)

EDUCATION 633: *Problems of Education*. Three hours. Summer session. Before registering for this course the student must consult the head of the Department of Education. (Freden)

EDUCATION 680: *Nature Study*. Three hours. First and second semesters. (Green)

A study is made of trees, flowers, birds, insects, weather phenomena, and such other convenient material as the teacher may find valuable in bringing the child and youth into closer contact with the world about him.

EDUCATION 710: *Observation and Practice Teaching in the Elementary School*. Twelve hours. First and second

semesters. Prerequisites, Psychology 502; Education 500, 501, 502 (or 503); Speech 410, and a grade average of C.

EDUCATION 712: *Observation and Practice Teaching in the Secondary School*. Twelve hours. Prerequisites, Psychology 502; Education 500, 606; Speech 410, and a grade average of C.

GEOGRAPHY

GEOGRAPHY 425: *Principles of Geography*. Three hours. Both semesters. (Green)

An introductory course in geographic principles and a study of man's relation to his natural environment of location, climate, soils and minerals, water bodies and land forms.

GEOGRAPHY 427: *Geography of Louisiana*. Three hours. Both semesters. (Green)

A course to familiarize students with the main factors, cultural and natural, which are influencing the development of Louisiana, and to inspire a greater love and appreciation of our state.

GEOGRAPHY 601: *Human Geography*. Three hours. (Green)

A study of the influence of geographic factors—earth relations, climate, location, surface features, soils and minerals, flora and fauna, transportation and communication—upon the activities of man.

GEOGRAPHY 602: *Conservation of Natural Resources*. Three hours. Second semester. (Green)

A study of the conservation of soils, minerals, forests, water, wild life, human resources, etc.

GEOGRAPHY 625: *Economic Geography of the United States and Canada*. Three hours. (Green)

A study of the geographic factors involved in the agricultural, industrial, economic and commercial development of the United States and Canada. Considerable practice is given in the graphic presentation of geographic data.

GEOGRAPHY 626: *Economic Geography of Latin America, Eurasia, Africa, and Australia*. Three hours. Prerequisite, Geography 625. (Green)

A study of the geographic factors involved in the agricultural, industrial economic and commercial growth of the world outside the United States and Canada. Outline maps of the continents are filled in, showing location, distribution, and use of the main world resources.

LIBRARY SCIENCE

LIBRARY SCIENCE 600: *Administration of School Libraries*. Two semester hours. First and second semesters. (Thesta Walker)

This course aims to provide the student with knowledge of and facility in the important methods and records of acquiring and caring for library materials; the organization of the school library; the purchase of supplies.

LIBRARY SCIENCE 601: *Functions and Use of School Libraries*. Two hours. First and second semesters. (Thesta Walker)

The aims of the course are: (1) to acquaint the student with the uses of essential reference tools; (2) instruction in the methods of introducing the school library in the modern school and community; (3) relation of the school librarian to teachers and pupils. Lectures, problems and discussion.

LIBRARY SCIENCE 602: *Adolescent Literature*. Two hours. First and second semesters. (Thesta Walker)

A survey of adolescent literature and a study of the reading interests of the adolescent, particularly during the high school years. A critical study of standards and classic books for the adolescent, as well as of reference books for this age group. Criteria for selecting books for adolescents with various reading backgrounds.

PSYCHOLOGY

PSYCHOLOGY 501: *General and Educational Psychology*. Three hours. First and second semesters. (Freden, Poret)

A study of the fundamental processes and problems of human behavior. Also a consideration of the psychological principles underlying teaching and learning.

PSYCHOLOGY 502: *Mental Hygiene*. Three hours. First and second semesters. Prerequisite, Psychology 501. (Freden, Poret)

A study of mental health, problems of adjustment and self-management, the development of balance, poisé, and personality.

PSYCHOLOGY 604: *Social Psychology*. Three hours. Summer session. Prerequisites, Psychology 502, Sociology 501. (Freden)

A study of the nature of social behavior, social stimulation and response; a psychological analysis of society and social institutions.

PSYCHOLOGY 605: *Fields of Psychology*. Three hours. Prerequisite Psychology 502. Summer session. (Poret)

A seminar for the study of the major fields of Psychology and their chief proponents.

SCHOOL OF ENGINEERING

ROY T. SESSUMS*, *Dean*

H. J. NETHKEN, *Acting Dean*

The School of Engineering offers a course of instruction and study for the primary purpose of preparing young men for entry into the engineering profession so that they may benefit society as a whole. The degree granted upon the completion of the required course of study is one of the following:

Bachelor of Science in Chemical Engineering.

Bachelor of Science in Civil Engineering.

Bachelor of Science in Electrical Engineering.

Bachelor of Science in Mechanical Engineering.

The Engineering School is located in Bogard Hall, the new engineering building. In this building are the classrooms library, and laboratories for chemical, civil, electrical and mechanical engineering, and the departments of Physics and Mathematics.

The laboratories are adequately equipped so that proper instruction and training may be given to students in the operation and care of the equipment used in the field of study which they have chosen.

REQUIREMENTS FOR ADMISSION

In addition to meeting other general entrance requirements to Louisiana Polytechnic Institute the student, for unconditional entrance to the School of Engineering, must present as part of his college entrance credits from his high school the following units:

English.....	3	units	
Algebra.....	1½	units	
Plane Geometry.....	1	unit	
Chemistry or Physics.....	1	unit	(Preferably Chemistry)

If these entrance credits are not offered for admission, certain adjustments must be made in the curriculum of the student which may result in delayed graduation. Another science may be offered for chemistry or physics by special permission of the Dean of the School of Engineering.

*On leave for military service.

SCHOLARSHIP REQUIREMENTS

The School of Engineering is aware of its responsibility of training men for public service, therefore it must hold exacting standards of achievement for those students to whom it gives its approval. Since the sciences, especially physics, chemistry, and mathematics, are the basis of any sound engineering curriculum, satisfactory work is essential in these departments during the first two years.

An average grade of "C" in all work in the freshman year, including any courses necessary to remove entrance conditions, is required for an unconditional entrance into the sophomore year of the School of Engineering.

If a "C" average is not made in the freshman year, the student may continue in the freshman division the second year, subject to the ruling on scholastic probation. He may take not more than 16 hours of credit per semester in his second (sophomore) year and must have a "C" average for the two years to continue in the School of Engineering.

It is recommended that "drive-in" students and all students who enter with a condition should consider the advisability of summer work or of taking five years to complete the course for a degree.

ADMISSION TO ADVANCED STANDING

A candidate for admission to the School of Engineering by transfer from another institution must submit a satisfactory record in scholarship and in conduct from the institution or institutions from which he wishes to transfer.

If the subjects satisfactorily passed cover in time and content certain of the required subjects in the engineering curriculum in which he expects to enter, equivalent credit will be allowed.

All transfer students, however, must have an average grade of "C" in all courses for which credit will be given. A one year probationary period will follow entrance during which time a "C" average must be maintained.

EXPENSES

In addition to the regular collegiate expenses listed elsewhere in this catalogue, the beginner in engineering is re-

Engl.

quired to purchase a drawing outfit of a quality approved by the faculty. The cost of this outfit is approximately \$12.00. All sophomores are required to purchase a slide rule. The cost of this instrument will vary from year to year but will be approximately \$9.00. From time to time it may be deemed advisable to charge a small departmental fee for certain laboratory courses, to cover cost of materials.

CHEMICAL ENGINEERING

There is an ever increasing demand for men well trained in chemical engineering, and today men with a thorough education in engineering, chemistry, and business occupy prominent and responsible positions in industrial organizations.

This course is designed to give the student a broad and thorough knowledge of the fundamental principles of engineering and chemistry and to develop his ability to analyze chemical engineering problems, to evaluate each factor properly, and thereby obtain an intelligent understanding of the particular problem and a practical solution thereof.

This curriculum has not been arranged to provide for a specialist in any one field, but to prepare the student in the fundamentals of chemical engineering.

CIVIL ENGINEERING

The curriculum in civil engineering has been arranged with the idea of giving the student, first, a cultural background, second, a general knowledge of related engineering fields and, finally, a thorough grounding in the strictly civil engineering subjects. As a rule, subjects of a more general nature have been introduced into the first two years of the curriculum, and have been followed by the more technical subjects in the last two years.

The lecture work has been generously supplemented by laboratory, field and drawing classes for the purpose of correlating theory with practice. The student is required to make original surveys in the field, and original designs in the laboratory work. For the most part, the civil engineering drawing classes consist of the plotting up of these surveys, and the making of detail drawings of these designs which the student himself has made.

ELECTRICAL ENGINEERING

It is the purpose of this department to offer the necessary theoretical and practical instruction to enable the graduate to enter the profession of electrical engineering and, especially, to participate successfully in the rapid industrial development of the South.

The work of the electrical engineer consists, primarily, of the design, the construction, the selection, and the operation of electrical machinery and apparatus, as well as the generation, transmission and distribution of electrical energy. To prepare the student to meet the problems he will encounter as an engineer, the curriculum is selected to conform with recognized engineering educational standards and give a broad cultural training along with a thorough grounding in the fundamentals of electrical engineering.

MECHANICAL ENGINEERING

The aim of the Mechanical Engineering Department is to give the student a knowledge of the fundamentals of engineering with some degree of specialization during the last two years of the four-year period required for the completion of this course. Mechanical engineering involves the problems of design, manufacture, and operation of machines, and requires of the engineer a knowledge that will enable him to solve these problems in such a way that the greatest possible economy will result.

It is intended that this course of study shall prepare the mechanical engineering student with the necessary amount of specialized knowledge in order that he may take a place in industry and by application of his fundamental training ascend to a position of social and economic usefulness.

CURRICULUM

The staff of the School of Engineering, believing that the average beginning student is unprepared to select intelligently the field of engineering which he is to follow, has arranged for a basic course during the first year. All freshman students will take this course during the first year and thus have an opportunity to learn more specifically of each branch of engineering. In the sophomore year they will then take the curriculum as indicated in the field of their choice.

BASIC ONE-YEAR ENGINEERING CURRICULUM

FRESHMAN YEAR

First Semester

	P	T	C
English 401.....		3	3
Chemistry 401.....	3	3	4
Mathematics 401.....		3	3
Mathematics 402.....		3	3
Freshman Orientation 401.....		1	1
Engineering 451.....	6		2
Physical Education.....	2		1
	11	13	17
Second Semester			
English 402.....		3	3
Chemistry 402.....	3	3	4
Mathematics 501.....		3	3
Electrical Engineering 402.....		3	3
Engineering 452.....	6		2
Physical Education.....	2		1
Civil Engineering 552.....	6		2
	17	12	18
Semester hours in freshman year.....	35		
Total semester hours.....	35		

CHEMICAL ENGINEERING CURRICULUM

(LEADING TO THE DEGREE OF BACHELOR OF SCIENCE)

SOPHOMORE YEAR

First Semester

	P	T	C
English 501.....		3	3
Mathematics 600.....		3	3
M. E. 501, Heat Engineering.....		3	3
Physics 501.....	3	3	4
Economics 501.....		3	3
Chemistry 605.....	6	1	3
Physical Education 501.....	2		1
	11	16	20
Second Semester			
English 502.....		3	3
Physics 502.....	3	3	4
M. E. 502, Heat Engineering.....		3	3
Chemistry 606.....	6	1	3
Mathematics 601.....		3	3
Economics 502.....		3	3
Physical Education 502.....	2		1
	11	16	20
Semester hours in sophomore year.....	40		
Total semester hours.....	75		

P—Practical courses in shop, drawing, laboratory, and field work.
 T—Theoretical courses, lectures, recitations, and problems.
 C—Semester hours credit.

JUNIOR YEAR

First Semester

	P	T	C
Chemistry 601, Organic Chemistry.....	6	3	5
Chemistry 611, Physical Chemistry.....	3	3	4
English 603.....		3	3
Ch. E. 601, Industrial Stoichiometry.....		2	2
C. E. 601, Mechanics.....		3	3
Mathematics 602, Calculus.....		3	3
	9	17	20

Second Semester

Chemistry 602, Organic Chemistry.....	6	3	5
Chemistry 612, Physical Chemistry.....	3	3	4
Ch. E. 602, Chemical Technology.....		2	2
C. E. 602, Mechanics.....		3	3
C. E. 622, Strength of Materials.....		3	3
	9	14	17

Semester hours in junior year..... 37

Total semester hours..... 112

SENIOR YEAR

First Semester

	P	T	C
Ch. E. 701, Principles of Chemical Engineering.....	3	3	4
Chemistry 711, Chemical Thermodynamics.....		3	3
Ch. E. 703, Petroleum Technology.....	3	3	4
E. E. 614, Electrical Machinery.....	3	3	4
Engineering 610, Geology.....		2	2
History or Social Science (Elective).....		3	3
	9	17	20

Second Semester

Ch. E. 702, Principles of Chemical Engineering.....	3	3	4
Ch. E. 724, Seminar.....		1	1
Ch. E. 732, Chemical Plant Design.....		3	3
Ch. E. 730, Engineering Metallurgy.....		3	3
Engineering 731, Contracts and Specifications.....		2	2
Chemistry 713, Theoretical Electrical Chemistry.....		3	3
Chemistry 610, Technical Analysis.....	6		2
	9	15	18

Semester hours in senior year..... 38

TOTAL semester hours..... 150

CIVIL ENGINEERING CURRICULUM

(LEADING TO THE DEGREE OF BACHELOR OF SCIENCE)

SOPHOMORE YEAR

First Semester

	P	T	C
English 501.....		3	3
Physics 501.....	3	3	4
Mathematics 600.....		3	3
M. E. 501 (Heat Engineering).....		3	3
Engineering 511 (Descriptive Geometry).....	3	2	3
Physical Education 501.....	2		1
Economics 501.....		3	3
	8	17	20

Second Semester			
English 502.....		3	3
Physics 502.....	3	3	4
Mathematics 601.....		3	3
M. E. 502 (Heat Engineering).....		3	3
Economics 502.....		3	3
Physical Education 502.....	2		1
		5	17
Credits for year.....	37	15	17
Total Credits.....	72		
JUNIOR YEAR			
First Semester			
	P	T	C
History or Social Science (Elective).....		3	3
Civil Engineering 601 (Mechanics).....		3	3
Civil Engineering 621 (Hydraulics).....		3	3
Civil Engineering 641 (Plane Survey).....	4	2	3 1-3
Mechanical Engineering 651 (Jr. Lab.).....	6		2
Civil Engineering 681 (C. E. Drawing).....	4		1 1-3
Mathematics 602.....		3	3
		14	18 2-3
Second Semester			
English 603 (Tech. English).....		3	3
Civil Engineering 602 (Mechanics).....		3	3
Electrical Engineering 614 (Elec. Machinery).....	3	3	4
Civil Engineering 642 (Rail R. Survey).....	4	2	3 1-3
Civil Engineering 622 (Str. of Mat.).....		3	3
Civil Engineering 682 (C. E. Drawing).....	4		1 1-3
		11	17 2-3
Credits for year.....	36 1-3	14	17 2-3
Total Credits.....	108 1-3		
SENIOR YEAR			
First Semester			
	P	T	C
Engineering 610 (Geology).....		2	2
Civil Engineering 721 (Mat. of Engr.).....		2	2
Civil Engineering 731 (Rein. Conc.).....		3	3
Civil Engineering 735 (Astro. Survey).....	4	2	3 1-3
Civil Engineering 741 (Structural).....		3	3
Civil Engineering 751 (Sanitary).....	3	3	4
Civil Engineering 761 (C. E. Drawing).....	4		1 1-3
		11	18 2-3
Second Semester			
Engineering 722 (Ind. Organ.).....		3	3
Engineering 731 (Con. and Specs.).....		2	2
Civil Engineering 722 (Mat. and Str. Lab.).....	6		2
Civil Engineering 724 (Seminar).....		1	1
Civil Engineering (Rein. Conc. Bldg.).....		2	2
Civil Engineering 742 (Structural).....		3	3
Civil Engineering 762 (Structural Design).....	6		2
Civil Engineering 772 (Foundations).....		2	2
		12	17
Credits of the year.....	35 2-3	13	17
TOTAL semester hours.....	144		

ELECTRICAL ENGINEERING CURRICULUM (LEADING TO THE DEGREE OF BACHELOR OF SCIENCE)

SOPHOMORE YEAR

First Semester

	P	T	C
English 501.....		3	3
Mathematics 600.....		3	3
M. E. 501 (Heat Engineering).....		3	3
Engineering 511 (Descriptive Geometry).....	3	2	3
Physics 501.....	3	3	4
Physical Education 501.....	2		1

8 14 17

Second Semester

English 502.....		3	3
Mathematics 601.....		3	3
M. E. 502 (Heat Engineering).....		3	3
E. E. 611 (D. C. Mach. and Lab.).....	6	3	5
Physics 502.....	3	3	4
Physical Education 502.....	2		1

11 15 19

Semester hours in sophomore year..... 36

Total semester hours..... 71

JUNIOR YEAR

First Semester

	P	T	C
Economics 501.....		3	3
Mathematics 602.....		3	3
C. E. 601 (Mechanics).....		3	3
C. E. 621 (Hydraulics).....		3	3
E. E. 612 (A. C. Circuits and Lab.).....	3	3	4
M. E. 651 (M. E. Lab.).....	6		2

9 15 18

Second Semester

History or Social Science (Elective).....		3	3
Economics 502.....		3	3
C. E. 602 (Mechanics).....		3	3
C. E. 622 (Str. of Matrls.).....		3	3
E. E. 615 (Electron and Lab.).....	3	3	4
M. E. 662 (Machine Shop).....	6		2

9 15 18

Semester hours in junior year..... 36

Total semester hours..... 107

SENIOR YEAR

First Semester

	P	T	C
English 603.....		3	3
M. E. 701 (K. K.).....		3	3
M. E. 711 (P. P.).....		3	3
E. E. 716 (Illumination).....		3	3
E. E. 725 (A. C. Mach.).....		3	3
Engineering 671 (Photo).....	3		1
E. E. 754 (P. P. Operation).....	6		2

9 15 18

Second Semester

Engineering 722 (Ind. Org.).....	3	3	3
E. E. 712 (Elec. P. P. Des.).....	3	3	3
E. E. 724 (Seminar).....	1	1	1
E. E. 726 (Elec. Trans.).....	3	3	3
E. E. 702 (Elec. Mach. Des.).....	3	2	3
E. E. 751 (A. C. Mach. Lab.).....	6		2
E. E. 728 (Elec. Equip.).....			3
	9	12	18
Semester hours in senior year.....	36		
TOTAL semester hours.....	143		

MECHANICAL ENGINEERING CURRICULUM
(LEADING TO THE DEGREE OF BACHELOR OF SCIENCE)

SOPHOMORE YEAR

First Semester

	P	T	C
History or Social Science (Elective).....		3	3
English 501.....		3	3
Physics 501.....	3	3	4
Mathematics 600.....		3	3
M. E. 501.....		3	3
Physical Education.....	2		1
Economics 501.....		3	3
	5	18	20

Second Semester

Engineering 511 (Descriptive Geometry).....	3	2	3
Economics 502.....		3	3
English 502.....		3	3
Physics 502.....	3	3	4
Mathematics 601.....		3	3
M. E. 502.....		3	3
Physical Education.....	2		1
	8	17	20
Semester hours in sophomore year.....	40		
Total semester hours.....	75		

JUNIOR YEAR

First Semester

	P	T	C
Mathematics 602.....		3	3
C. E. 601—Applied Mechanics.....		3	3
C. E. 621—Hydraulics.....		3	3
M. E. 641—Internal Combustion Engines.....		3	3
M. E. 651—Mechanical Laboratory.....	6		2
M. E. 662—Machine Shop.....	6		2
Engineering 671—Photography.....	3		1
	15	12	17

Second Semester

E. E. 614—Elements of Electrical Engineering	3	3	4
C. E. 602—Applied Mechanics		3	3
C. E. 622—Strength of Materials		3	3
English 603—Technical English		3	3
E. E. 611—D. C. Machinery and Lab.	6	3	5
	9	15	18
Semester hours in junior year	35		
Total semester hours	110		

SENIOR YEAR

First Semester

	P	T	C
M. E. 701—Kinematics and Kinetics		3	3
M. E. 711—Power Plant		3	3
M. E. 741—Heating, Ventilating and Con.		3	3
M. E. 751—Senior Mechanical Lab	6		2
M. E. 715—Thermodynamics		3	3
M. E. 725—Steam Turbines		3	3
C. E. 721—Materials of Engineering		2	2
	6	17	19

Second Semester

Engineering 731—Contracts and Specifications		2	2
M. E. 702—Machine Design	3	2	3
M. E. 712—Power Plant Design		3	3
Engineering 722—Industrial Organization		3	3
M. E. 724—Seminar		1	1
M. E. 752—Mechanical Laboratory	6		3
M. E. 716—Refrigeration		3	3
M. E. 780—Welding and Heat Treating	3		1
	12	14	18

Semester hours in senior year

37

TOTAL semester hours

147

Department of Chemical Engineering

W. W. CHEW, ASSISTANT PROFESSOR AND HEAD OF THE DEPARTMENT

DESCRIPTION OF COURSES

CHEMICAL ENGINEERING 601: *Industrial Stoichiometry*. Two hours. First semester. Prerequisite, Chemistry 606. (Chew)

Problems and recitation in material and heat balances involved in chemical processes.

CHEMICAL ENGINEERING 602: *Chemical Technology*. Two hours. Second semester. Prerequisite, Ch. E. 601. (Chew)

A study of the application of chemistry to manufacturing in the most important chemical industries such as acids, alkalis, cement, glass, paints, paper and organic chemicals.

CHEMICAL ENGINEERING 701, 702: *Principles of Chemical Engineering*. Four hours per semester. Three laboratory, three lecture. First and second semesters. Prerequisites, Ch. E. 601, 602. (Chew)

Lectures, recitation and problems, devoted to the study of basic laws involved in the dynamics of fluids, flow of heat, radiation, evaporation, drying, distillation, crushing, grinding, sedimentation, and filtration, with laboratory application of these principles to industrial practice.

CHEMICAL ENGINEERING 703: *Petroleum Technology*. Four hours. Three laboratory. Three lecture. First semester. Prerequisite, Chemistry 602. (Chew)

A detailed study of the important chemical and physical properties of petroleum and its products. Special attention is given to the chemical aspects of refining of petroleum products. Study of the standard petroleum testing methods with emphasis on interpretation of results and report writing.

CHEMICAL ENGINEERING 724: *Seminar*. One hour. Second semester. Open to seniors. (Chew)

Opportunity is offered for technical discussion, reading of assigned papers and informal talks by instructors and professional engineers. Seminar further serves to bring the student abreast of current engineering thought.

CHEMICAL ENGINEERING 730: *Engineering Metallurgy*. Three hours. Second semester. Prerequisite, Chemistry 611. (Chew)

A study of the important ferrous and non-ferrous metals and alloys as they relate to the engineer. Production methods are covered as well as properties of metals. The principles of metallurgy are treated to show the relationship of structure and heat treatment to properties and uses.

CHEMICAL ENGINEERING 732: *Plant Design*. Three hours. Second semester. Prerequisite, Ch. E. 701. (Chew)

Design of chemical plant construction and arrangement of machinery and equipment.

Department of Civil Engineering

R. A. McFARLAND, PROFESSOR AND HEAD OF THE DEPARTMENT
PROFESSOR ROY T. SESSUMS*; ASSOCIATE PROFESSOR J. T. FOLK; ASSISTANT
PROFESSOR C. T. WATTS

DESCRIPTION OF COURSES

CIVIL ENGINEERING 552: *General Surveying*. Two hours. First and second semesters. Prerequisite, Mathematics 402. (Folk)

The principles and fundamental operations of surveying with compass, level, and transit. Field practice is given in actual surveys of land. Computations of area and drawing of plans; differential and profile leveling, running contours, etc.

CIVIL ENGINEERING 601: *Mechanics*. Three hours. First semester. Prerequisite, credit or registration in Mathematics 601. (McFarland, Goss)

Applied and analytical mechanics. The statistical analysis of concurrent, non-concurrent, coplanar, and non-coplanar forces. Practical applications of statics to determination of stresses in engineering structures. Static and kinetic friction with application to belts, axles, jacks, etc. Centroids and centers of gravity. Moment of inertia.

CIVIL ENGINEERING 602: *Mechanics*, concluded. Three hours. Second semester. Prerequisite, Engineering 601. (McFarland, Goss)

Mass moment of inertia. Kinematics and kinetics of rectilinear, rotational, and combined motion. Work and power. Principles of impulse and momentum.

CIVIL ENGINEERING 621: *Hydraulics*. Three hours. First semester. Prerequisite, Mathematics 601. (Folk, Chew)

Hydrostatics and hydrodynamics. Hydrostatic pressures as viewed in balancing columns of the same or different liquids, and in pressures on submerged surfaces. Elementary theory of gravity dam stability. Logarithmic plotting of hydraulic test data. Energy and velocity relation in the flow of water. Converging and diverging flows. Pipe and canal flow. Solution of looping and branching hydraulic

*On leave for military service.

distribution systems. Hydraulic machinery in theory, construction and operation. Centrifugal water pumps, impulse and reaction turbines. Water hammer and surging.

CIVIL ENGINEERING 622: *Strength of Materials*. Three hours. Second semester. Prerequisites, Civil Engineering 601 and credit or registration in Mathematics 601. (McFarland)

The resistance and properties of engineering materials, including the theory and practice of design of simple tension, compression, and shear members; riveted joints; simple, overhanging, and cantilever beams. Shear distribution in beams; beam deflections; continuous and statically indeterminate beams. Column theory and design.

CIVIL ENGINEERING 641: *Plane Surveying*. Three and one-third hours. First semester. Prerequisite, Civil Engineering 552. (Watts)

Measurements of lines, angles, and differences of elevation; adjustments of surveying instruments; miscellaneous surveying problems; plane table surveys; stadia method; city, topographical, and mining surveying.

CIVIL ENGINEERING 642: *Railroad Surveying and Earthwork*. Three and one-third hours. Second semester. Prerequisite, C. Engineering 641. (Watts)

Reconnaissance, preliminary, and location surveys. Railroad and highway simple curves by deflections, tangent offset, chord produced, and other methods. Obstacles to curve locations. Reversed, compound and spiral curves; turn-outs, crossing, and connections, earthwork diagrams and computations; vertical curves.

CIVIL ENGINEERING 681: *Civil Engineering Drawing*. One and one-third hours. First semester. Prerequisite, credit or registration in Civil Engineering 641. (Watts)

Free-hand lettering, titles, topographical conventions; realignment location and contour problems; maps, plans and profiles.

CIVIL ENGINEERING 682: *Civil Engineering Drawing*, concluded. One and one-third hours. Second semester.

Prerequisite, credit or registration in Civil Engineering 642. (Watts)

A complete topographical map of some area or large extent is made from original field notes. Simple, reversed, compound, and spiral curve problems.

CIVIL ENGINEERING 721: *Materials of Construction*. Two hours. Second semester. Open to seniors. (Folk)

The principles of construction underlying the laws of the strength of materials of construction. Manufacture and general properties of materials. Testing machines and methods of testing materials of construction. Concrete yield problems.

CIVIL ENGINEERING 722: *Structural Laboratory*. Two hours. Second semester. Prerequisite, Civil Engineering 741 and registration in Civil Engineering 742. (Watts)

Theoretical and experimental analysis of structural members, and models, and determination of physical properties of structural materials.

CIVIL ENGINEERING 724: *Seminar*. One hour. Second semester. Open to seniors. (McFarland)

Opportunity is offered for technical discussion, reading of assigned papers, informal talks by instructors and professional engineers, debates on matters of technical interest. Instruction in oral delivery. Seminar further serves to bring the student abreast of current engineering thought.

CIVIL ENGINEERING 731: *Reinforced Concrete Construction*. Three hours. First semester. Prerequisite, Civil Engineering 622. (McFarland)

Concrete and steel in combination. Principles underlying the design of integral parts of reinforced concrete structures such as beams, girders, slabs, columns, footings, walls, etc. Retaining walls, long columns, flat slabs.

CIVIL ENGINEERING 732: *Reinforced Concrete Buildings*. Two hours. Second semester. Prerequisite, Civil Engineering 731. (McFarland)

The calculation of stresses resulting in complete struc-

tures of reinforced concrete, accompanied by class room designs.

CIVIL ENGINEERING 735: *Higher Surveying*. Three and one-third hours. First semester. Prerequisite, Civil Engineering 642. (McFarland)

Triangulation, measurements and corrections for base lines, astronomical surveying, precise leveling, higher surveying problems and computations.

CIVIL ENGINEERING 741: *Structural Engineering*. Three hours. First semester. Prerequisite, Civil Engineering 601 and 622. (Watts)

Lectures and drawing work in the analysis of engineering structures, with emphasis on the graphical method. Conditions for maximum and minimum loading of beams, bridges, roofs, and buildings. Computation of stresses in beams. Drawing of stress sheets of common styles of roof and bridge trusses. Introduction to structural design for shear, bending, and axial stresses. Structural connections.

CIVIL ENGINEERING 742: *Structural Engineering*, concluded. Three hours. Second semester. Prerequisite, Civil Engineering 741. (Watts)

Analysis of economic sections, best rivet spacing for plate girders. Beam and girder bridges. Stress analysis and design of members for truss type railroad and highway bridges. Mill type buildings. Lectures accompanied by problems in selection of structural members and the design of structural connections.

CIVIL ENGINEERING 751: *Water Supply and Sewerage*. Four hours. First semester. Prerequisites, Civil Engineering 621 and 622. (Watts)

Sources of water supply, and sanitary problems associated with location, construction, and operation of water supplies, purification works, and distribution systems. Sewerage collection, treatment, and disposal works.

CIVIL ENGINEERING 761: *Advanced Civil Engineering Drawing*. One and one-third hours. First semester. Prerequisite, Civil Engineering 642. (McFarland)

Preliminary railroad and highway maps from original notes; paper locations; complete plans and profile maps; tracing and blueprinting.

CIVIL ENGINEERING 762: *Advanced Civil Engineering Drawing*, concluded. Two hours. Second semester. Prerequisite, Civil Engineering 741 and registration in Civil Engineering 742. (Watts)

The practical application of structural engineering to structural steel design and drafting. Detailed calculations for a complete steel structure, *i. e.* bridge, roof, or building. General and detail drawings, bill of material, and estimate of weight. Courses 742 and 762 are coordinated so that the theory guides the practice.

CIVIL ENGINEERING 772: *Foundations*. Two hours. Second semester. Prerequisite, Civil Engineering 731. (McFarland)

Design and construction of footings, cofferdams, and caissons for bridges and buildings. Piers and abutments. Underpinning of buildings. Exploration and testing of foundation sites. Excavation and removal of materials from foundation sites.

Department of Electrical Engineering

H. J. NETHKEN, PROFESSOR AND HEAD OF THE DEPARTMENT
ASSOCIATE PROFESSOR R. S. WYNN; ASSISTANT PROFESSORS H. B. YARBROUGH*, H. M. IKERD*, N. H. BARNETT.

DESCRIPTION OF COURSES

ELECTRICAL ENGINEERING 402: *Elementary Electricity*. Three hours. First and second semesters. (Nethken, Wynn, Barnette)

Study of electrical and magnetic units. Permanent and electro-magnets. Primary and secondary batteries. Elementary electrical circuits. Electrical work, heat and power.

ELECTRICAL ENGINEERING 611: *Direct Current Circuits and Machines*. Five hours. Second semester. Prerequisite, Electrical Engineering 402. (Wynn, Barnette)

General principles of construction and operation of D. C. generators and motors. Armature reaction and commutation. Voltage regulation, speed regulation, efficiency. Systems of motor control. Storage batteries. Booster systems. D. C. wiring and distribution systems. Armature winding problems and characteristic curves.

ELECTRICAL ENGINEERING 612: *Alternating Circuits*. Four hours. First semester. Prerequisite, Mathematics 601. (Nethken, Wynn)

Electric fields and the energy stored in them. Alternating voltages and currents; instantaneous, maximum, average, and effective values. Study of vectors; rectangular and polar coordinates, and complex quantities. Alternating reactions; inductance, capacitance, reactance, impedance, phase angles. Solution of series and parallel circuits. Power of single and polyphase systems. Wattmeter connections. Hysteresis and eddy current losses. Alternating current instruments. Problems.

ELECTRICAL ENGINEERING 614: *Elements of Electrical Engineering*. Four hours. Prerequisite, Electrical Engineering 402. (Nethken, Barnwell)

* On leave for military service.

This course is open to non-electrical engineering students only.

A study of direct and alternating current machines and circuits; circuits in series and in parallel, generators, motors, transformers and rectifiers. Study of regulation, efficiency, and power, with special emphasis on working characteristics of machines and apparatus.

ELECTRICAL ENGINEERING 615: *Electronics and Communication*. Four hours. Second semester. Prerequisite, Electrical Engineering 612. (Wynn)

Study of electronic phenomena; vacuum tubes, gaseous tubes, and mercury arc. Application of electronic tubes to conversion of A. C. to D. C. and D. C. to A. C., radio and telephony.

ELECTRICAL ENGINEERING 702: *Electrical Machine Design*. Three hours. Second semester. Prerequisite, Electrical Engineering 725. (Nethken)

Study of important elements of electrical design; magnetic circuits, coils, armature windings, bearings and other machine details. Lectures and problems, including design and detailed drawings of an assigned machine.

ELECTRICAL ENGINEERING 712: *Power Plant Design*. Three hours. Second semester. Prerequisite, Mechanical Engineering 711 and Electrical Engineering 725. (Nethken)

Study and selection of equipment for a power plant; generators, exciters, and auxiliary motors. Designs of station circuits. Selection of conductors, switching equipment and instruments. Lectures with problems.

ELECTRICAL ENGINEERING 716: *Illumination*. Three hours. First semester. (Nethken)

Basic theory of lighting. Requirements for good lighting. Production of light. Lighting systems. Design and calculations. Industrial lighting. Residence and school lighting. Decorative lighting. Lecture and problems.

ELECTRICAL ENGINEERING 724: *Seminar*. One hour. Second semester. Open to seniors. (Barnette)

Opportunity is offered for technical discussion, reading of assigned papers, informal talks by instructors and professional engineers, debates on matters of technical interest. Instruction in oral delivery. Seminar further serves to bring the student abreast of current engineering thought.

ELECTRICAL ENGINEERING 725: *Electrical Equipment*. Three hours. First semester. Prerequisite, E. E. 612. (Nethken)

Study of transformers; constant potential, constant current, instrument, and auto-transformers. Vector and circle diagrams, equivalent circuits, regulation, losses, efficiency and rating. Alternators; wave forms, generated voltage, armature reaction, reactance and resistance. Losses, efficiency, regulation, rating and parallel operation. Polyphase induction motors; rotating fields, equivalent circuits, circle diagram, torque, slip, power, regulation and efficiency. Cage rotors, wound rotors and speed control types.

ELECTRICAL ENGINEERING 726: *Electrical Transmission*. Three hours. Second semester. Prerequisite, Electrical Engineering 725. (Wynn, Goss)

A study of dielectric circuits; insulation, condensers, charging currents, losses, dielectric strength, voltage gradient, insulators and bushings, corona, spark-over, energy. Short transmission lines; resistance, inductance, capacity, graphical methods, regulation and efficiency, phase control. Commercial wave forms, Fourier's series, distorted waves, constant and pulsating resistance, inductance, and capacitance, analysis of wave forms. Protective appliance; circuit breakers, ground wires, lightning arresters, power limiting reactances, light cells. Long transmission lines; general equations, hyperbolic functions, preliminary calculations, regulation, and efficiency.

ELECTRICAL ENGINEERING 728: *Electrical Equipment*. Three hours. Second semester. Prerequisite, E. E. 725. (Nethken)

Synchronous Motors; operational characteristics, methods of starting, power factor, phase characteristics, vector diagrams, test data. Single Phase Motors; induction, repul-

sion, and series motors. Torque, speed and control characteristics. Mechanical conversion devices; synchronous converter, voltage and current relations, heating of coils, power factor, rating, and efficiency. Inverters, racing, boosters. Electronic conversion devices; mercury arc, high vacuum and gas filled tubes, dry plate rectifiers. Characteristics and applications. Alternating current instruments; fundamental types, methods of damping. Ammeters, voltmeters, wattmeters, frequency meters.

ELECTRICAL ENGINEERING 751: *Alternating Current Laboratory*. Two hours. Second semester. Prerequisites, Electrical Engineering 612 and registration in Electrical Engineering 725. (Nethken, Wynn, Barnette)

ELECTRICAL ENGINEERING 754: *Power Plant Operation*. Two hours. First semester. Prerequisites, M. E. 711, E. E. 725 and registration in E. E. 728. (Nethken)

Each student taking this course will be required to spend six hours per week working in the college power plant under the direct supervision of the engineer in charge. Notebooks of operational problems will be kept and regular quiz meetings will be held. At the end of the semester a comprehensive examination in operation and record keeping will be given.

Department of Mechanical Engineering

W. L. MITCHELL, PROFESSOR AND HEAD OF THE DEPARTMENT
ASSISTANT PROFESSORS BEN T. BOGARD*, J. W. RABB*, J. H. BARNWELL,
G. GOSS.

MECHANICAL ENGINEERING 501: *Heat Engineering*. Three hours. First semester. Open to sophomores. (Mitchell, Goss)

A study of fuels and their combustion; furnaces and stokers. Equipment and practice in firing of oil, gas and pulverized coal. Elementary heat and work with introduction to the content and use of steam tables. Steam boiler types and details. Steam plant auxiliaries. Elementary thermodynamics of the permanent gases and steam. Steam and gas cycles in theory, with especial attention to the Otto, Diesel and Rankine cycles. Lectures accompanied by weekly exercises and problems. (The student is required to purchase a slide rule for calculations.)

MECHANICAL ENGINEERING 502: *Heat Engineering*, concluded. Three hours. Second semester. Prerequisite, M. Engineering 501. (Mitchell, Goss)

Steam cycles in practice. Steam engines, valve gear, governors. Calculation of power, valve setting, and efficiency at varying loads. Study of steam turbine types and mechanical construction. Theory of impulse and reaction nozzles and blading, with and without consideration of friction. Study of the Mollier diagram for steam. The Otto and Diesel cycles in practice. Gas, gasoline, and heavy oil engine types, rating, and performance. Ignition, carburetion, and fuel injection. Two and four-cycle types. Calculations involving volumetric and thermal efficiency, power, and part-load operation. Mechanical details of internal combustion engines for automotive, aeronautical, and stationary use.

MECHANICAL ENGINEERING 641: *Internal Combustion Engines*. Three hours. First semester. Prerequisite, M. Engineering 502. (Mitchell, Goss)

The design and principles of operation of internal combustion engines. The Otto and Diesel cycles and funda-

*On leave for military service.

mental thermo-dynamic laws involved. Flywheels, governors, carburetors, cylinders, cooling, etc. Stationary and mobile engines.

MECHANICAL ENGINEERING 651: *Junior Mechanical Laboratory.* Two hours. First semester. Prerequisites, M. Engineering 502, and credit or registration in C. Engineering 621. (Barnwell, Goss)

Calibration of steam gauges and thermometers. Tests of Portland cement; cement mortar in tension and compression, concrete in compression. Tests of brick; compression, transverse, and absorption. Strength of beams and columns. Materials in tension, compression, and shear. Determination of the modulus of elasticity. Setting of engine valves. Gas engine adjustment and operation. Gas and steam engine operation and power from indicator diagrams. Brake tests. Centrifugal and reciprocating pump tests. Friction of water flow in pipes. Calibration of orifices, wires, and meters.

MECHANICAL ENGINEERING 662: *Machine Shop Practice.* Two hours. First semester. Open to juniors. (Barnwell)

Laying out work; chipping and filing plane surfaces; scraping and finishing. Precision grinding and drill press work. Lathe practice in external and internal turning and finishing, boring and screw thread cutting. Use of the bed planer and crank shaper machines. Milling of plane surfaces, spur and bevel gears, straight and spiral teeth. Design of cutting tools, tempering and grinding of tools. Practice in the machining and assembly of foundry casting.

MECHANICAL ENGINEERING 701: *Kinematics and Kinetics.* Three hours. First semester. Prerequisite, C. Engineering 602. (Barnwell)

A study of the mechanics of machinery. Kinematic analysis of various linkages, cams, gears, and wrapping connectors. Analysis of velocities and accelerations by vector polygons and centros. Special methods. Graphical and algebraical solution of applied and inertia forces in machine parts. Dynamic balance in single and multi-cylinder engines. Governors, flywheels and speed regulation.

MECHANICAL ENGINEERING 702: *Machine Design*. Three hours. Second semester. Prerequisite, M. Engineering 701. (Barnwell)

Strength of machine materials. Maximum stress theories. Factors of safety. Design of tank and boiler joints. Screws, pins, keys, and other fastenings. Springs. Design of power transmission machinery; belts, chains, gears. Clutches and brakes. Shafting, ball, roller, babbitt, and bronze bearing design. Introduction to the use of manufacturer's data. Lectures with problems, including complete design and detailing of some assigned machine.

MECHANICAL ENGINEERING 711: *Power Plant Engineering*. Three hours. First semester. Prerequisites, M. Engineering 502, C. E. 621. (Barnwell, Goss)

Theory and practice of the modern stationary power plant, with especial attention to economic selection and layout. Variable load and the cost of power service. Rates. The power plant building. Diesel plant design. Steam flow, dams, mass curves, and flow line of the hydro-electric plant. Hydro station equipment and performance. The principal vapor cycles in theory and practice. Cycle design and heat balance computations for Rankine, regenerative, reheating, and binary vapor cycles. Study of modern heat transfer theories. Selection of steam boilers, water walls, and superheaters.

MECHANICAL ENGINEERING 712: *Power Plant Engineering*, concluded. Three hours. Second semester. Prerequisite, M. Engineering 711. (Nethken, Barnwell)

Selection of equipment and design of the steam-electric plant. Steam engines. Advanced theory of the steam turbine. Prediction of turbine operating conditions at full and part loads. Condensers and condenser auxiliaries. The interrelation of boiler turbine and condenser. Selection of equipment relating to the combustion of fuel; conveyors, stokers, burners, fans, etc. Feedwater treatment. Heating and evaporation of feedwater. Piping problems. Systems of piping. Electric system equipment and layout. Generators, switches, control, and protective devices. Design of

station circuits and selection of conductors. Supply of energy to auxiliaries. Power plant instruments.

MECHANICAL ENGINEERING 715: *Thermodynamics*. Three hours. First semester. Prerequisite, M. Engineering 502. (Mitchell)

A study of conditions surrounding the doing of work, with and without consideration of heat changes, and the transformation of heat into work in the steam engine, internal combustion engine, refrigerating machinery, compressors, etc.

MECHANICAL ENGINEERING 716: *Refrigeration*. Three hours. Second semester. Prerequisite, M. Engineering 715. (Mitchell)

The thermodynamics of refrigeration and refrigeration cycles. Design, construction, and operation of refrigerating plants.

MECHANICAL ENGINEERING 724: *Seminar*. One hour. Second semester. Open to seniors. (Mitchell)

Opportunity is offered for technical discussion, reading of assigned papers, informal talks by instructors and professional engineers, debates on matters of technical interest. Instruction in oral delivery. Seminar further serves to bring the student abreast of current engineering thought.

MECHANICAL ENGINEERING 725: *Steam Turbines*. Three hours. First semester. Prerequisite, Mechanical Engineering 502. (Goss)

A study of the theory of the steam turbine, its construction, application and operation, with special attention to the designing of nozzles and blades.

MECHANICAL ENGINEERING 741: *Heating, Ventilating and Air Conditioning*. Three hours. First semester. Prerequisite, Mechanical Engineering 502. (Mitchell)

Direct and indirect systems of heating with live steam, exhaust steam, air and water. Laying out plants. Ventilating and its relation to heating. A complete design of a heating and ventilating plant is required.

MECHANICAL ENGINEERING 751: *Senior Mechanical Laboratory*. Two hours. First semester. Prerequisite, Engineering 651. (Barnwell, Goss)

Tests of lubricating oils; viscosity; emulsibility, flash, and burning points. Heat value of gas and coal. Proximate analysis of coal. Flue and exhaust gas analysis. Transfer of heat through pipes and tubes. Horsepower and mechanical efficiency of steam engines. Power and efficiency of air compressors. Thermal-mechanical efficiency of gas engine, steam engine, and steam turbine. Evaporative test on steam boiler.

MECHANICAL ENGINEERING 752: *Mechanical Laboratory*. A continuation of Mechanical Engineering 751. Two hours. Second semester. Prerequisite, Mechanical Engineering 751. (Barnwell, Goss)

Operation of steam equipment and internal combustion engines. Power and efficiency tests. Heating and ventilating equipment tests. Fuel and lubrication testing.

MECHANICAL ENGINEERING 780: *Welding and Heat Treating*. One hour. Second semester. (Barnwell)

Theory of electric and oxy-acetylene welding. Practice in oxy-acetylene welding. Hardening, tempering, and drawing of steels. Use of gas and electrical heat treating furnaces. Normalizing, annealing and carburizing.

General Engineering

DESCRIPTION OF COURSES

ENGINEERING 451: *Engineering Drawing*. Two hours. First and second semesters. (Watts, Barnette)

Practice in the correct use of drawing instruments, T square, triangles, and scales. Construction of geometric figures. Freehand lettering, titles. Principles of orthographic projection. Detailing and dimensioning of elementary machine parts. Problems in rotation of solids. Development of surface and intersections of solids. Isometric projection. Construction and detailing of common fasteners.

ENGINEERING 452: *Engineering Drawing*, concluded. Two hours. First and second semesters. Prerequisite, Engineering 451. (Watts, Barnette)

Section drawing. Reading, drawing and interpreting of machine details and assemblies. Freehand sketching of machine elements. Original mechanical drawings machine parts. Patent office drawings. Tracing and blueprinting.

ENGINEERING 511: *Descriptive Geometry*. Three hours. First and second semesters. Prerequisite, Engineering 452. (Folk, Wynn)

A study of the relative direction of lines and planes. True shapes and sizes of portions of planes, and similiar problems. Training in development of clear and logical reasoning ability, stressing the quality of vision. Simple and higher relations of the point, the line, and the plane. Intersections of lines, planes, and curved surfaces. Shades and shadows.

ENGINEERING 610: *General Geology for Engineers*. Two hours. First semester. Open to juniors and seniors. (Chew)

An introduction to the principles of geology and a study of the physical nature of the earth.

ENGINEERING 671: *Photography*. One hour. First and second semesters. Open to juniors. (Nethken, Barnette)

Lenses. Effects of light upon different chemicals. Cameras. Practice in exposing, developing, printing and other

operations necessary to make pictures. Copying, enlarging, and redeveloping.

ENGINEERING 722: *Industrial Organization*. Three hours. Second semester. Open to seniors. (Goss)

Principles of industrial organization and management, including industrial finance, wage systems, factory organization and location, and the planning of factory buildings. Industrial tendencies, organized labor, factory legislation, personnel service, activities, introduction to business activities, financial calculations and depreciation problems. Budgeting and cost accounting systems.

ENGINEERING 731: *Contracts and Specifications*. Two hours. Second semester. (Mitchell)

Essential elements of a legal contract, competency of agents, corporations, etc. Engineering specifications, instructions to bidders, forms of proposals, etc.

SCHOOL OF HOME ECONOMICS

HELEN GRAHAM, *Dean*

PROFESSOR HELEN GRAHAM; ASSOCIATE PROFESSOR ANNA IDTSE; ASSISTANT PROFESSORS MERLE BURK, WILLIE FLETCHER, RUTH RICHARDSON; INSTRUCTORS BESSIE JOYCE; HENRIETTA SIEVERT, DREWSILLA BEAMS, MIRIAM LARSEN.

PURPOSE

The main purpose of the School of Home Economics is to give, along with a standard academic curriculum, special training for home making. Also because of the constant demand for home economics teachers for the secondary schools of Louisiana and other states, the training of teachers has become of special importance. The teaching of this subject after graduation, with the responsibility of its laboratories, serves as additional training for home making.

Other fields for which training is offered are those of extension work, business positions in the field of home economics, commercial demonstration, dietitians in hospitals and other institutions, welfare workers, and nursery school supervision.

The work of this school is in the five areas pertaining to home living:

First, foods, cookery, and nutrition.

Second, clothing, textiles, and supporting arts.

Third, administration of the home, home management, and child care.

Fourth, methods of teaching home economics and practice teaching.

Fifth, institutional management.

BUILDINGS

The physical plant for instruction in this curriculum consists of four buildings with adequate equipment in each. The *main building* consists of well equipped laboratories and lecture rooms for food, clothing, home management, and related subjects.

Another building, the *home management house*, is an eight-room cottage with large basement for laundering,

equipped with modern electrical appliances. Six senior students in a section register for this one-semester course and in that time do all the work of the home under the supervision of one of the instructors. This is a practical application of the students' previous work in foods, nutrition, child care, and home management. Each girl entertains in various ways so that the unusual home activities as well as the usual ones are experienced. This house is also used for various social features on the campus.

A four room cottage houses the *nursery school*, which serves as a laboratory for classes in child development. The cafeteria and dining hall serve as laboratories for the courses in institutional management which are taught by the college dietitian and the supervisor of the cafeteria.

FACULTY

The teaching staff is composed of eight specialists in home economics besides the critic teachers.

ADMISSION

The Home Economics curricula are open to any high school graduate regardless of whether or not she has taken this subject in high school.

CURRICULA

Four curricula are open to home economics majors:

1. The Teacher-Training Home Economics course.
2. The Home Makers' course.
3. A course preparatory to Institutional Management (for hospital dietitians)
4. A course preparatory to special work in the clothing field for those who plan to go into costume designing, fashion styling, retailing, or other textile fields.

The first three of these curricula lead to the B. S. degree; the fourth leads to the B.A. degree.

In each of these four curricula the freshman and sophomore years are the same.

The Home Makers' course is the same as the Teacher-Training course except that the education classes may be omitted and electives acceptable to adviser substituted.

HOME ECONOMICS TEACHER-TRAINING CURRICULUM

FRESHMAN YEAR	Semester Hours
English 401, 402: Freshman Composition.....	6
Biology 401: General Biology.....	4
Biology 403: Bacteriology.....	3
Mathematics 405.....	3
Art 401, 475: Art Structure.....	4
Home Economics 401: Textiles and Principles of Clothing Consumption.....	3
Home Economics 402: Pattern and Clothing Design and Construction.....	3
Speech 410.....	3
Physical Education: Any two from 412-417.....	2
Freshman Orientation.....	1
Total semester hours.....	32
SOPHOMORE YEAR	Semester Hours
English 501, 502: English and American Literature.....	6
Chemistry 407, 408: General Chemistry.....	8
Psychology 501, 502: General and Education, Mental Hygiene.....	6
Home Economics 405, 406: Food Study and Preparation and Service of Meals.....	5
Home Economics 505: Dietetics.....	3
Home Economics 514: Family Clothing.....	3
Physical Education: One from 530, 540, 545, 560; one from 570-582.....	2
Total semester hours.....	33
JUNIOR YEAR	Semester Hours
Education 605 or 606: Secondary Education.....	3
Chemistry 520: Organic Chemistry.....	4
Economics 505.....	3
Sociology 505.....	3
Home Economics 618: Home Building and Furnishing.....	3
Home Economics 650: Home Management (a).....	1
Home Economics 609: Experimental Cookery.....	3
Home Economics 614: Child Development.....	3
Home Economics 610: Costume Design and Advanced Clothing Construction.....	3
Biology 625: Human Anatomy and Physiology, or 620.....	3
Music 630: Music Appreciation.....	2
Physical Education 621: First Aid.....	1
Total semester hours.....	32
SENIOR YEAR	Semester Hours
History.....	6
Education 655: Home Economics Methods.....	3
Education 708: Home Economics Practice Teaching.....	4
Home Economics 709: Demonstration (H. E. Education).....	2
Home Economics 667: Advanced Nutrition.....	3
Home Economics 668: Physiological Chemistry.....	3
Home Economics 750: Home Management (b).....	4
Electives.....	8
Total semester hours.....	33
TOTAL semester hours in curriculum.....	130

CURRICULUM
FOR INSTITUTIONAL MANAGEMENT MAJORS
(FRESHMAN AND SOPHOMORE, SAME AS IN EDUCATION COURSE)

JUNIOR YEAR		Semester Hours
Chemistry 520.....		4
Economics 505.....		3
Sociology 505.....		3
Home Economics 605: Nutrition and Diet Therapy.....		2
Home Economics 618: Home Building and Furnishing.....		3
Home Economics 650: Home Management (a).....		1
Home Economics 609: Experimental Cookery.....		3
Home Economics 755: Cafeteria Management.....		4
Biology 620, 625.....		6
Home Economics 760: Quantity Cookery.....		3
Elective.....		3
Total semester hours.....		35
SENIOR YEAR		Semester Hours
History.....		6
Home Economics 667: Chemistry of Food and Nutrition.....		3
Home Economics 668: Physiological Chemistry.....		3
Home Economics 750: Home Management (b).....		4
Home Economics 614: Child Development.....		3
Home Economics 761: Institution Administration.....		3
Home Economics 762: Food Cost Accounting.....		2
Agriculture 701: Farm Meats.....		3
Electives.....		5
Total semester hours.....		32
TOTAL semester hours in curriculum.....		133

CURRICULUM FOR CLOTHING-ART MAJORS
(FRESHMAN AND SOPHOMORE, SAME AS IN EDUCATION COURSE)

JUNIOR YEAR		Semester Hours
French.....		6
Music 630: Music Appreciation.....		2
Economics 505.....		3
Sociology 505.....		3
Home Economics 618: Home Building and Furnishing.....		3
Home Economics 650: Home Management (a).....		1
Home Economics 614: Child Development.....		3
Home Economics 610: Costume Design and Advanced Clothing Construction.....		3
Art 450, 451.....		4
Elective.....		4
Total semester hours.....		32
SENIOR YEAR		Semester Hours
French.....		6
History.....		6
Home Economics 750: Home Management (b).....		4
Home Economics 710: Draping.....		3
Biology 620 or 625.....		3
Art (Elective).....		4
Electives.....		6
Total semester hours.....		32
TOTAL semester hours in curriculum.....		130

DESCRIPTION OF COURSES

TEXTILES, CLOTHING AND RELATED ART

HOME ECONOMICS 401: *Textiles and Principles of Clothing Consumption*. Three hours. First and second semesters. Three lecture hours. (Burk, Joyce)

A study of textile fibers and fabrics designed to make the purchaser of textile material discriminating in her taste in the selection of fabrics and clothing and aware of her responsibility as a consumer.

HOME ECONOMICS 402: *Pattern Study and Clothing Construction*. Three hours. Prerequisite, Home Economics 401. (Burk, Joyce, Richardson)

HOME ECONOMICS 514: *Family Clothing*. Three hours. Prerequisite, Home Economics 402. (Richardson)

The planning, selection and construction of clothing for the family, including infants, small children, and adults, with emphasis on clothing economics and up-keep. One lecture, four laboratory hours per week.

HOME ECONOMICS 610: *Costume Design and Advanced Clothing Construction*. Three hours. Prerequisites, Home Economics 402, 514 and Art 401, 475. (Burk)

Application of the art principles in costume design, outlines of costume history. A detailed study of clothing selection and advanced clothing construction. One lecture, four laboratory hours per week.

HOME ECONOMICS 710: *Draping*. Three hours. One lecture, four laboratory hours per week. Prerequisite, Home Economics 514. (Burk)

Instruction in the draping of costume on a figure rather than by the use of commercial patterns.

FOODS AND NUTRITION

HOME ECONOMICS 405, 406: *Food Study and Preparation*. Three hours and two hours respectively. (Joyce, Sievert)

A study of the properties of foods, their nutritive value and place in the diet; the principles and methods of cookery

applied in the planning, the preparation and serving of meals. One lecture, four laboratory hours per week for 405; four laboratory hours for 406.

HOME ECONOMICS 505: *Dietetics*. Three hours. Prerequisite, Home Economics 405. (Idtse, Joyce)

The practical application of the principles of nutrition to the planning of diets for various ages and conditions; the prevention and dietetic treatment of deficiency diseases. One lecture, four laboratory hours per week.

HOME ECONOMICS 605: *Nutrition and Diet Therapy*. Two hours. Prerequisite, Home Economics 405 and 505. (Sievert)

A study of the principles of dietetics and their application to special diets for different diseases. Two lectures per week.

HOME ECONOMICS 609: *Experimental Cookery*. Three hours. Prerequisites, Chemistry 520, Home Economics 405. (Sievert)

A scientific investigation of the principles and practices of cookery. One lecture, four laboratory hours per week.

HOME ECONOMICS 667: *Advanced Nutrition*. Three hours. Prerequisites, Home Economics 505 and Chemistry 520. (Idtse)

A study of the foodstuffs, their properties, digestion and metabolism. Three lectures per week.

HOME ECONOMICS 668: *Physiological Chemistry*. Three hours. Prerequisites, Home Economics 505 and Chemistry 520. (Idtse)

Experiments on the carbohydrates, lipins and proteins, digestive processes, blood, and urine. One lecture, four laboratory hours per week.

HOME ECONOMICS 709: *Demonstration*. Two hours. Prerequisites, Home Economics courses under 667. (Graham)

The principles and practice of demonstration to train for teaching, for home demonstration work, and for business positions related to home equipment or administration. Also a content course in all fields involved. Four laboratory hours per week.

HOME ADMINISTRATION

HOME ECONOMICS 614: *Child Development*. Three hours. Prerequisite, Home Economics 505. (Fletcher)

A study of the physical, mental, social, and emotional life and constructive entertainment and play life of the child, including development of the infant and young child with emphasis on the toys, stories, and play equipment. Two lectures, two laboratory hours per week.

HOME ECONOMICS 615: *Nursery School Administration*. Three hours. Prerequisite, Home Economics 614. (Fletcher)

The planning and organization of different types of nursery schools and special training of teachers for nursery school work. Four laboratory hours and one lecture hour per week.

HOME ECONOMICS 618: *Home Building and Furnishing*. Three hours. Prerequisite, Art 401. (Graham)

A study of the principles which underlie the creation of artistic homes, harmonious house furnishings, period furniture, wall decoration and draperies, studies in planning home surroundings. Two lectures per week.

HOME ECONOMICS 650: *Home Management (a)*. One hour. Prerequisite, all freshmen and sophomore home economics courses. (Fletcher)

The economics of the household; its administration and finance. Two lectures per week for nine weeks.

HOME ECONOMICS 750: *Home Management (b)*. Four semester hours. Prerequisite, Home Economics 609, 709, 650. (Idtse)

A term of residence in the home management house in which all the activities of the home are conducted by the student under the direction of the teacher in charge.

HOME ECONOMICS EDUCATION

HOME ECONOMICS 655: *Home Economics Methods*. Three hours. Prerequisites, Home Economics 609, 709, 650. (Richardson)

An application of the principles of psychology and sociology in the study of the organization and methods of teach-

ing home economics in the high school. Three lecture hours per week.

INSTITUTIONAL MANAGEMENT

HOME ECONOMICS 755: *Cafeteria Management*. Four semester hours. Prerequisite, all foods courses. (Larsen)

A course in the operation and management of a school lunch room or cafeteria. One lecture, four laboratory hours per week. Open to teacher-training group also.

HOME ECONOMICS 760: *Quantity Cookery*. Three hours. Second semester. Prerequisite, Home Economics 609 and 755. (Beams)

This course gives experience in large quantity food preparation and service, menu planning and methods of purchasing for institutions.

HOME ECONOMICS 761: *Institutional Administration*. Three hours. First semester. Prerequisite, Home Economics 755 and 760. (Beams)

Principles of organization and management as applied to institutional administration. Selection, arrangement, and care of institutional equipment, study of personnel management, business organization, record keeping, and food-cost accounting.

HOME ECONOMICS 762: *Food Cost Accounting*. Two hours. Second semester. (Beams)

FOR OTHER THAN HOME ECONOMICS MAJORS

HOME ECONOMICS 501: *Nutrition and Physical Fitness*. Two hours. First semester. (Sievert)

Nutrition course for physical education majors. Not open to home economics majors.

A general course in nutrition from the standpoint of keeping fit physically. Two lectures per week.

HOME ECONOMICS 502: *A General Course in Home Living*. Open to all men and women except home economics majors. (Staff)

Featured topics will include (1) house and grounds, (2) food selection, (3) clothing selection, (4) child development, (5) consumer buying. Two hours. Two lectures per week.

Part IV—Statistical Summary

DEGREES CONFERRED MAY 1942

SCHOOL OF AGRICULTURE

Bachelor of Science in Agriculture:

Richard Lee Barron, Plain Dealing
James Hugh Boddie, Ruston
J. L. Burns, Bernice, *cum laude*
Woodrow Wilson Farrar, Lillie
Billy Archie Hinton, Clay
Mack McIntosh, Oak Grove

Lester Roy Page, Minden
William Reeves Pearce, Ruston
Edward Lee Roberts, Ft. Gaines,
Ga.
magna cum laude
Roland Pleasant Vernon, Ruston
William Henry Young, Minden

SCHOOL OF ARTS AND SCIENCES

Bachelor of Arts in Art:

Ernestine Middleton, Shreveport
Kathleen Camille Minter, Ruston
Mary Byrd Rawls, Ruston, *magna cum laude*

Faye Camilla Odom, Ruston

Bachelor of Science in Chemistry:

Charles Clark Templeton, Benton,
Ark., *summa cum laude*

Bachelor of Arts in Liberal Arts:

Mary June Brewster, Choudrant
Ruth Baker Browne, Jonesboro
Audrey Alethe Bryan, Arcadia
Paul Clifton Burnett, Marshall, Tex.
Nelda Faye Caldwell, Monroe
Audrey Marie Frasier, Alden Bridge
Lola Rimes Goit, Kentwood
Elaine DeFreese Land, Ruston
Madelyn Maddocks, Ruston
Rupert Moreland, Simsboro
Sarah Alice Norris, Ruston
Daniel Oscar Otts, Jr., Lillie
Erma Louise Oxley, Ferriday
James Arthur Person, Lake Providence
Ida Elizabeth Raulins, Ruston
M. Ophelia Simmons, Arcadia
Janice M. Tarpley, Homer
Bonnie Ernestine Thrasher, Arcadia
Zelia Dare Wainwright, Farmer-
ville
Juanita Waller, Dodson

Bachelor of Science in Liberal Arts:

Grace Richardson Biles, Minden
Samuel Overton Brooks, Monroe
Ira Fowler, Hico, *cum laude*
James Prewett Guerriero, Monroe
George Roy Hayes, Jr., Shreveport
Mellie Nancy Head, Chatham, *cum laude*
Clu Flu Lusk, Eros
William Andrew McBride, Jr.,
Shreveport
Helen Madeline McCuen, Ruston
John Edward Rabun, Farmerville
Benjamin Franklin Scott, II, Junc-
tion City, Ark.
Edward Caldwell Whatley, Far-
merville

Bachelor of Science in Physical Education:

Mary Holt Barnes, Ruston, *magna cum laude*
Paul John Bonin, Vinton
Marion Maxine Calhoun, West
Monroe
Lena Alexa Lawler, Ruston
Lucille Belle McCoy, Ruston
Ellie Mae Norwood, Bunkie
Effie Viola Shell, Kelly
Grace Erleene Shipman, Bastrop
Mary Louise Wilder, Chatham
Louise Carolyn Wilhite, Sterlington
Joseph Edward Wojcecki, Erie, Pa.

Bachelor of Arts in Music:

Benjamin Wallace Morris, Kent-
wood, *magna cum laude*
Cynthia Delmar Nixon, Ruston
Lavan Raymonde Robinson, Bernice

Bachelor of Music:

Virginia Sue Evans, Booneville,
Ark., *cum laude*
Nellie Wallace Knapp, Ruston

SCHOOL OF BUSINESS ADMINISTRATION AND ECONOMICS

Bachelor of Arts in Economics:

Lee Joseph Melton, Jr., Winnfield

Bachelor of Science in Business Administration:

James Eugene Ball, Alexandria
John Ed Barnes, Bienville
Milton Howard Baugh, Ruston
Marie Bolton, Rayville
Hubert Spengler Breard, Monroe
Larkin Booles Breed, Ruston
Christine Britt, Pleasant Hill
Sarah Almeda Butler, Winnsboro
Helen Exa Carmichael, Arcadia
John Adalia Caskey, Shreveport
Jewell Bell Culpepper, Chatham
Rufus Gerald Frasier, Jr., Ruston,
cum laude
Fay Elizabeth Gilbert, Tallulah
Johnnie Virginia Graham, Arcadia
Olius Alonzo Guess, Jr., Monroe
James Hall, Junction City, Ark.
Ottis Erle Hendricks, Jr., Ruston
Wilford Everett Hightower, Sum-
merfield
Ruth Ann Holland, Jonesboro
John Tom Hollis, Marion
Mary Catherine Hortman, Minden
Fred Leo Hudson, West Monroe
Chessley Eugene McKenzie, Ruston
Frances Corinne McWhorter, Mon-
roe
Henry Arvil Malone, Downsville

Fred Pete Michael, Homer
Dalton Watson Miller, Waterproof
James Murray Moore, Bernice
Thomas Hedrick Moore, Waterproof
Jack Herman Neilson, Ruston
Gertrude Jackson Northcott, Cot-
ton Valley
Fred Warren O'Bier, Springhill
Bernice Ludell Owen, Chatham
Edwena Florence Pardue, Downs-
ville
James Walter Pratt, Bernice
Byron Hudson Rainwater, Jr., Rus-
ton.
Jimmye Ferne Rasbery, Simsboro
Deas Summerlin Robinson, Monroe
Hines Earnest Rogers, Jr., Mans-
field
Jerald Douglas Stratton, Minden
John Watson Stratton, Plain Deal-
ing
Mildred L. Thornton, Winnfield
James Carroll Tinsley, Haynesville
Emma Jean Toler, Quitman, cum
laude
Grace Marie Tousley, Eros
Fletcher William Truly, Shreveport
Mary Grace Turner, Minden
Lucy Nell Wainwright, Farmerville
Marion Dawson Willis, Gibsland
James Francis Zoeller, New Al-
bany, Ind.

SCHOOL OF EDUCATION

Bachelor of Arts in Education:

Lucy Theresa Anderson, Monroe
Clara Brewer Baker, Tullos
Nola Frances Barber, Ruston
Omah Bivens, Oak Grove
Mary Louise Blaine, Shreveport
Mary Leora Blume, Shreveport
Novia Brown, Marion
Cecile Crowell Burkett, West Mon-
roe
Florence Davis Calhoun, Ruston
Melva Laurice Capps, Ruston
Martha Eloise Caskey, Arcadia
Katie Belle Craighead, Athens
Rabie A. Craft, El Dorado, Ark.
Alice Ruth Doss, Hico, cum laude
Ernestine Dudley, Lillie
Mary Lucille Fallin, Simsboro

Mary Heard Fincher, Homer
Louise Gilbert, Homer
Marguerite Golden, Oak Grove
Corinne Elizabeth Greer, Shreve-
port
Quinnie Faye Hale, Litroe
Harriett Hardeman, Homer
Marie Gueydan Hester, Tallulah
Juanita Wall Hinton, West Monroe
Edna Eugenia Hood, Arcadia
Verna Deene Lowe, Haynesville
Maxie Prudhomme McConathy,
Arcadia
Loette Malone McIntosh, Bernice
Lillie McKinney, Hosston
Helen Alfred Madden, Arcadia
Catherine Toms Merritt, Bienville
Mary Alice Nelson, Ruston

SCHOOL OF EDUCATION
(CONTINUED)

Maxine Tuberville Nelson, Ruston	Dorothy Leona Stokes, Bunkie
Annie Laura Norsworthy, Bastrop	Floy Edwards Van Hook, Ruston
Anita Bondurant Oliphant, Sicily Island	Frances Louise Walker, Cotton Valley
Nancy Orr, Bastrop	Mary Blanche Walker, Shreveport
Katie A. Burns Peters, Baskin	Azile White, Shreveport
Catherine Bell Pickett, Monroe	Don O. Willis, Calhoun
Esther Trussell Pittard, Ruston	Alda Edwina Worsham, Shreveport
Beth Harper Rhinehart, West Monroe	Bachelor of Science in Education: George Koutezky Anding, Delhi

SCHOOL OF ENGINEERING

Bachelor of Science in Chemical Engineering:

Thomas Harper Goodgame, Camden, Ark.
John T. Hearne, Gilliam
James Edward Lee, Wisner, magna cum laude
Cecil Harbert Marshall, Monroe, magna cum laude
Robert Kelly Palmer, Ferriday
William Thomas Wells, Longstreet, cum laude
Robert F. Williams, Shreveport

John Rumph Boddie, Monroe
Clinton Gilbert Goss, Ruston
Sam Price Gullatt, Jr., Ruston, cum laude
Thomas John Soebbing, Monroe
Abner W. Watts, Winnfield
Louie A. Whitman, Ruston

Bachelor of Science in Civil Engineering:

Stephen William Cole, Ruston
Frank Earl Hogan, Oak Ridge, cum laude
Earl Humble, Wisner
Johns Albert Madden, Arcadia

Bachelor of Science in Mechanical Engineering:

Harvey Tigner Benoit, Shreveport, cum laude
Jack Berry Cooper, Shreveport
Vergil Leslie Garlington, Oakdale
James E. Montgomery, Saline
Philip Eugene Myers, Marion, Ind.
Bruce K. Purcell, Plain Dealing
Rufus Pershing Smith, Bernice
Jesse Edward Stodghill, Jr., Rayville
Henry Otis White, Baton Rouge
Audry Clyde Williams, West Monroe

Bachelor of Science in Electrical Engineering:

Richard C. Baker, Jonesboro, cum laude

SCHOOL OF HOME ECONOMICS

Bachelor of Arts in Home Economics:

Avis Meade McBride, Port Gibson, Miss.

Bachelor of Science in Home Economics:

Farris Wood Anderson, El Dorado, Ark.
Margaret Elizabeth Bond, Jonesboro
Sarah Ben Batchelor, Ringgold
Lou Stella Compton, Farmerville

Elby Crosby, Ruston
Margaret Mae Crowell, Monroe
Lelia Maude Davis, Choudrant
Elizabeth J. Doxey, Grand Cheniere
Caroline Ford, Homer
Sammy Elizabeth Givens, Bastrop
Ada Evelyn Hamler, Minden
Meda Lavelle Higgs, Alexandria
Bessie Louise Hornsby, Ruston
Hazel Fay Long, Oak Grove
Floyce Idelle Love, Linville
Margaret McCallum, Ruston
Elbie McDaniel, Ruston

SCHOOL OF HOME ECONOMICS

(CONTINUED)

Carrie Mae McIntosh, Darnell	Mary Ella Sims, Calhoun
Geraldine Mostiller, Arcadia	Wilma E. Sledge, Coushatta
Hazel Louise Nolan, Ruston	Jessie Olive Thomas, Winnfield
Gladys B. Parish, Ruston	Mary Louise Toler, Farmerville
Virginia Quarles Pearce, Bunkie	Mary Ruth Waters, Dodson
Eva Gae Penton, Baskin	Frances Lavinia Watts, Ruston
Mabel Evelyn Reeves, Monroe	Alma Rae Williamson, Baskin
Hilda Ann Rockett, Rayville	Ora Belle Williamson, Vienna
Lora Halene Roper, Tallulah	Jessie Mae Willis, Ruston
Henry Faye Rhymes, Jonesboro	Mona Faye Wilson, Downsville
Virginia Rives, Homer	Ola Elizabeth Wren, Minden
Doris Fern Robinson, Homer	Maude Denitia Wright, Swartz

DEGREES CONFERRED AUGUST 1942

SCHOOL OF AGRICULTURE

Bachelor of Science in Agriculture:

Samuel Ernest Dale, Jr., New Era James F. Davis, Choudrant

SCHOOL OF ARTS AND SCIENCES

Bachelor of Arts in Liberal Arts:

Syble Louise Austin, Kilbourne,
cum laude
Margie Bell Burch, Ruston
Beatrice Taylor Cammack, Farmer-
ville, magna cum laude
Gussie Josephine Fortenberry,
Ruston
John Davis Frazar, Jr., De Ridder
John Sidney Garrett, Haynesville
Mildred Young Henderson, Ansley
William Roderick Horton, Jr.,
Winnfield
Marjorie Helen Mayfield, Monroe
Demaris Rockett, Lillie
Charles Audress Stevens, Athens
Mary Virginia Tinsley, Simsboro
Frank Voelker, Lake Providence

Bachelor of Arts in Music:

Marna Marguerite Newman, Rus-
ton

Bachelor of Music:

Mildred Elaine Canady, Sikes
Eleanor Humble, Calhoun, cum
laude
LaVerne Irvine, Jr., Ruston
Doris Pipes, Winnfield
Era Byrd Pullen, Jonesboro
John Ernest Raley, El Dorado, Ark.

Bachelor of Science in Chemistry:

Seth Thomas Bowen, Delhi, cum
laude

Bachelor of Science in Liberal Arts:

Dorothy Jane Davis, Choudrant
Alma Frances Turner, Ruston

**Bachelor of Science in Physical Edu-
cation:**

Murrie Lee Cheshire, Jonesboro
Lillian Cousins, Hodge
Gladys Evelyn Lyles, Ruston
Herman Polansky, Bronx, N. Y.
Helen Blanche Price, West Monroe

SCHOOL OF BUSINESS ADMINISTRATION AND
ECONOMICS**Bachelor of Science in Business Ad-
ministration:**

William Sanders Baskin, Ruston
Mattie Elizabeth Craig, Ruston
Elizabeth Crow, Monroe

Newlyn Louise Greene, Rodessa
Bonnie Mae Johnson, Chatham
Ruby Alice Renfrow, Tallulah
Billie Estelle White, Castor

SCHOOL OF EDUCATION

Bachelor of Arts in Education:

Mary Chapman Acklen, Archibald
 Robert Todd Ard, Bastrop
 Katherine Virginia Averett, West
 Monroe
 Mildred Dennis Blake, Ruston
 Floy Edwina Burke, Rayville
 Mary Alyce Carson, Jonesboro
 Neely Chase, Chase
 Letha Farley Colvin, Dubach
 Lola Gilliland Crowell, West Mon-
 roe
 Irene M. Dozier, Oak Grove
 Alwine Whitfield Duncan, Monroe
 Lillian Everett, Lillie
 Vera Hazel Fails, Kilbourne
 Lois Virginia Farrar, Bastrop
 Johnnie D. Fore, Grayson
 Nell Garland, Bernice
 Mary E. Hall, Grayson
 Vera Brewton Hall, Bienville
 Hallie M. Peveto Harmon, West
 Monroe
 Pearl S. Hortman, Minden
 Horace Tilmon McIntyre, Oak
 Grove
 Theo Williamson McPhail, Baskin

Ola Blanche Newton, Epps
 Estelle Head Owens, West Monroe
 Aileen Peveto, West Monroe
 Mittie Polk, Winnsboro
 Ruby Stoker Reed, Gibsland
 Georgia Powell Robinson, Colum-
 bia
 Doris Honeycutt Rogers, Farmer-
 ville
 Carrie H. Rutledge, Monroe
 Joe Watson Rutledge, West Monroe
 Lyda Gayle Rutledge, West Monroe
 Ruth Riggs Simpson, West Monroe
 Josephine Crume Snyder, Ruston
 Regina Taylor, Ruston
 Elsie Louise Thomas, Monroe
 Valera Tilley, Bryceland
 Cloy H. Walsworth, Ansley
 Johnnye Ray West, Columbia
 Jacqueline Whisenhunt, Bossier
 City
 Clara Boothe Williams, Winnsboro
 Nell Womble Windham, Winnsboro
 Etta Stancil Womack, Chatham
 Isabel Jones Woods, Monroe
 Sarah Reneau Yates, Oak Grove

SCHOOL OF ENGINEERING

**Bachelor of Science in Chemical
 Engineering:**

Charles Crawson Brewer, Shreve-
 port
 Edward Orr, Glenmora

James Sterling McKinney, Gibs-
 land
 Addison Thomas Ward, Jr., Ster-
 lington

**Bachelor of Science in Electrical
 Engineering:**

Charles James Lowderback, Marion

**Bachelor of Science in Mechanical
 Engineering:**

George Willis Lunsford, Dubberly
 Joe Mack Pugh, Ponchatoula

SCHOOL OF HOME ECONOMICS

Bachelor of Arts in Home Economics:
 Lena Josephine Wilson, Alexandria

Nannie Lou Hoggatt, Wisner
 Marguerite Elizabeth Holladay,
 Gilbert

**Bachelor of Science in Home Eco-
 nomics:**

Annie Belle Cooper, Ruston
 Mary Ellen Durrett, Simsboro
 Nola Florence Granger, New Or-
 leans

Lorraine Hollis, Laran
 Vallie Marsh, Dubach
 Zulma Moore, Bernice
 Mary Ellen Platt, Oxford
 Alma Lynn Rasmussen, Shreveport
 Janie Nell Reagan, West Monroe

ENROLLMENT SESSION 1942-1943

	MEN	WOMEN	TOTAL
School of Agriculture.....	51		51
School of Arts and Sciences.....	162	255	406
School of Business Administration and Economics.....	127	211	338
School of Education.....	1	93	94
School of Engineering.....	337	1	338
School of Home Economics.....		178	178
	—	—	—
TOTAL.....	679	727	1406

ENROLLMENT SUMMER SESSION 1942

	MEN	WOMEN	TOTAL
School of Agriculture.....	27		27
School of Arts and Sciences.....	102	144	246
School of Business Administration and Economics.....	58	88	146
School of Education.....	3	109	112
School of Engineering.....	139		139
School of Home Economics.....		107	107
	—	—	—
TOTAL.....	329	448	777
	—	—	—
GRAND TOTAL.....			2,183

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