

**Tennessee Agricultural and Industrial  
State College**

# **THE BULLETIN**

**THE SUMMER QUARTER, 1948**

**First Term: June 7 - July 14**

**Second Term: July 15 - August 20**



**Vol. 36**

**No. 1**

Published twelve times a year at the Agricultural and Industrial State College. Entered August 16, 1912 at the Post Office, Nashville, Tennessee as Second Class Mail matter under the act of Congress.

**Nashville, Tennessee**

**MARCH, 1948**



Tennessee Agricultural and Industrial  
State College

# THE BULLETIN

THE SUMMER QUARTER, 1948

First Term: June 7 - July 14

Second Term: July 15 - August 20



Vol. 36

No. 1

Published twelve times a year at the Agricultural and Industrial State College. Entered August 16, 1912 at the Post Office, Nashville, Tennessee as Second Class Mail matter under the act of Congress.

Nashville, Tennessee

MARCH, 1948

## PLAN OF ORGANIZATION

Agricultural and Industrial State College is composed of ten major Divisions as follows:

- |   |   |
|---|---|
| <b>I. The Division of Agriculture</b><br>Agronomy<br>Agricultural Economics<br>Agricultural Education<br>Animal Husbandry<br>Farm Machanics<br>General Agriculture<br>Horticulture<br>Poultry | <b>VI. The Division of Home Economics</b><br>Child Care and Nursery School<br>Clothing and Textiles<br>Foods and Nutrition<br>Home Economics Education<br>Home Management |
| <b>II. The Division of Business</b><br>Accountancy<br>Business Administration<br>Business Education<br>Economics  | <b>VII. The Division of the Humanities</b><br>English<br>Foreign Languages<br>Speech and Dramatics  |
| <b>III. The Division of Education</b><br>Elementary Education<br>Secondary Education<br>Psychology<br>Health and Physical Education<br>Art, Music and Library Science                         | <b>VIII. The Division of Political and Social Science</b><br>Political Science<br>Sociology<br>Social Administration  |
| <b>IV. The Division of Engineering and Industrial Education</b><br>Industrial Engineering<br>Industrial Education<br>Trades<br>Aviation Education   | <b>IX. The Division of Science</b><br>Biology<br>Chemistry<br>Mathematics<br>Natural Science<br>Physics   |
| <b>V. The Division of History and Geography</b><br>Geography<br>History   | <b>X. The Graduate Division</b><br>Advanced Courses<br>Research<br>Field Studies  |

## CALENDAR

---

### SPRING QUARTER, 1948

May 30	Sunday	Baccalaureate Sermon
May 31	Monday	Commencement Exercises

### SUMMER QUARTER, 1948

June 7-8	Monday, Tuesday	Registration for Summer Quarter
June 9	Wednesday	Classes begin
July 5	Monday	Holiday
July 14	Wednesday	First Term ends
July 15	Thursday	Registration, Second Term
August 15	Sunday	Baccalaureate—Commencement Exercises
August 20	Friday	Summer Quarter ends

First term: June 9-July 14, inclusive.

Registration: June 9-10, 8:00 A.M.; classwork, June 11.

Second term: July 15-August 20, inclusive.

Registration: July 15, 8:00 A.M.; classwork, July 16.

Three-weeks terms:

First: June 9-June 28, inclusive.

Second: June 30-July 18, inclusive.

### FALL QUARTER, 1948

September 16	Thursday	Freshman Registration, Fall Quarter
September 21-22	Monday, Tuesday	General Registration, Fall Quarter

**OFFICERS OF ADMINISTRATION**

Walter Strother Davis, B.S., M.S., Ph.D.,—President of the College  
 George William Gore, Jr., A.B., Ed.M., Ph.D.,—Dean of the College  
 Earl Sasser, A.B., A.M., Ph.D.,—Registrar  
 J. A. Welch, B.S.,—Assistant in Business Office, Supervisor of Physical Plant  
 Emma P. Johnson, B.S.,—Bursar  
 William K. Fox, B.S., B.D., Dean of Men  
 Edna R. Hankal, A.B.—Dean of Women  
 Virginia Nyabongo, B.A., M.A., Ph.D.—Student Personnel Director  
 Martha M. Brown—Library Consultant  
 Janie Elliot—Cafeteria Consultant  
 Mattie B. Reed, B.S.—Dietician  
 Robert M. Gaines, B.S.—Cafeteria Manager  
 Samuel H. Freeman, B.S., M.S., M.D.—College Physician  
 Carr A. Treherne, B.S., M.S., M.D.—College Physician

**ADMINISTRATIVE ASSISTANTS AND OFFICE STAFF**

Benton Adams, B.S.—Laboratory Instructor  
 Hazel Blaine, B.S.—Secretary to Student Personnel  
 Maxine B. Banning—Clerk, Reg. Office  
 James Major Belle, B.S.—Supt. Physical Plant  
 William K. Brown, Tech. Auto Mechanics  
 Mary F. Carter, B.S., M.A.—Assistant Registrar  
 Evelyn Carter, B.S.—Clerk, Bursar's office  
 Mildred M. Cater, B.S., Executive Clerk  
 Sabra S. Conner, B.S.—Clerk Business Office  
 Mabel B. Crooks, B.S.—Secretary Division of Science  
 Dell S. Crowder, Tech Home Appliances, Ref.  
 Isabell Crowder, Nurse  
 Lavinia S. Dumas—Matron of Wilson Hall (Women)  
 Mary E. Evans, B.S.—Secretary Division of Political and Social Science  
 Leon Farbes—Supt. of Maintenance Department  
 Corinne H. Floyd—College Nurse  
 Ethelyn A. Franklin—Clerk, Business Office  
 Johnie Cue Franklin, A.B.—Secretary to Dean  
 Earl L. Gary—Tech. Shoemaking  
 Clara M. Gleaves—Clerk Business Office  
 Pearl W. Gore, B.S.—Secretary to Veterans Student Aid  
 James A. Grant—Laboratory Assistant  
 Emma M. Gunn, B. S.—Secretary to Division of Education  
 Cecil Hardy, B.S.—Farm Manager, Coordinator  
 Mary R. Hardy, B.S., Director of Post Office  
 Ruby Harper—Secretary to Health and Physical Education  
 Ed Harris—Electrician

Vera A. Howell, B.S.—Clerk, Registrar Office  
 Rose A. Hicks—Clerk in Business Office  
 Mildred A. Joyner, B.S.—Secretary to Library  
 Clyde J. Kincaide, B.S.—Publicity Manager of Athletics  
 Joseph R. Marks, B.S.—Technician, Plumbing  
 Catherine Maryland, B.S.—Assistant in Biology  
 Neal McAlpin, B.S., M.S.—Landscape Architecture  
 Henrietta R. McCallister, B.S.—Clerk, Business Office  
 Dorothy McKee, B.S.—Secretary, Business Office  
 Annie L. Morrison, B.A. M.S.—Matron, Single Veterans Dormitory  
 Rachel J. Patillo, B.S., M.S.—Director Veterans' Affairs  
 Irene B. Peebles, B.S.—Laboratory Asst. Home Economics  
 Frances L. Prater, B.S.—Secretary to Registrar  
 Verna May Randals, Advisor to Day Students  
 Camille Robinson, B.S.—Secretary to Division of Home Economics  
 Nora L. Roy, B.S.—Grad. Assist. in Social Administration  
 John G. Sanders—Radio Technician  
 Rose H. Sanders, B.S.—Clerk, Registrar Office  
 Bennie M. Sullivan, B.S.—Secretary to President  
 Grady Sherrill, B.S.—Assistant Engineer  
 E. Jeannette Vernon, B.S.—Stenographer-Bookkeeper  
 Queen Washington—College Nurse  
 Lena B. Watson—Director of East Hall  
 Arthuryne Welch, B.S., Secretary to Division of Engineering  
 Helyne Wilhoite, B.S., Secretary to Humanities Division  
 Nora I. Work, B.S.—Cashier

### LIBRARY STAFF

Lillian L. Barbour—Assistant Librarian  
 Martha M. Brown—Library Consultant  
 Margaret R. Campbelle, B.S.—Assistant Reference Librarian  
 Lois H. Daniel, B.S., B.L.S., M.A.—Librarian  
 Bessie L. Kean, B.A.—Circulation Librarian  
 Velma S. Lowe, A.B., B.L.S.—Reference Librarian  
 Collye L. Riley, B.S., B.L.S.—Library Cataloguer  
 Modestine Young, B.S.—Reserve Librarian

### OFFICERS OF INSTRUCTION

Walter S. Davis, B.S., M.S., Ph.D.—President of the College  
 George W. Gore, Jr., A.B., Ed.M., Ph.D.—Dean of the College, Director  
 of the Division and Professor of Education  
 Earl L. Sasser, A.B., M.A., Ph.D.—Registrar  
 Benton Adams, B.S.—Assistant in Drama and Art  
 Charity Adams, A.B., M.A.—Acting Director of Student Personnel  
 Christine Alexander, B.S., M.A.—Associate Professor of Foods and  
 Nutrition  
 Martha M. Allen, A.B., M.A.—Instructor in Biology and Science  
 James K. Anthony, B.S., Instructor of Geography  
 Laura M. Averitte, B.S., M.S.—Professor of English  
 Walter Austin, B.S., M.S.—Instructor in Agriculture Economics  
 Lois H. Belton, B.S., M.S.—Instructor of Speech and English  
 Helena R. Black, A.B., M.A.—Instructor Modern Foreign Languages  
 Alger V. Boswell, A.B., M.A.—Head of Department and Professor of  
 Mathematics  
 Barbara L. Bryant, B.S.—Instructor in Health and Physical Education  
 Susie O. Bryant, A. B., M.A., Ph.D.—Professor of Political Science and  
 History  
 Gladys B. Butler, A.B., M.A.—Assistant Professor of Social Studies  
 William F. Butler, B.A., M.A.—Associate Professor of History  
 Dorothy N. Campbell, A.B., M.A.—Associate Professor of Music  
 Hazo W. Carter, B.S., M.S.—Instructor of Agriculture  
 Mary F. Carter, B.S., M.A.—Instructor in English  
 Jordan D. Chavis, A.B., M.A.—Associate Professor of Music  
 Montraville I. Claiborne, A.B., M.A.—Associate Professor of Psy-  
 chology  
 Joseph C. Crofton, B.S., M.S., Assistant Professor of Agronomy  
 Clinton D. Crooks, B.S., M.S.—Assistant Professor of Health and  
 Physical Education  
 Hubert B. Crouch, A.B., M.S., Ph.D.—Director of the Division of  
 Science and Professor of Biology  
 Cecille E. Crump, B.S., M.A.—Associate Professor of Business Educa-  
 tion  
 Lillian G. Dabney, A.B., M.A.—Professor of Education  
 Lois H. Daniel, B.S., B.S.L., M.S.—Head of the Department and Asso-  
 ciate Professor of Library Service  
 Davis, A.B., B.S.—Technician, Department of Animal Industry  
 B. L. Dutton, B.S. in C.E.—Head of Department and Professor of  
 Engineering  
 Merl R. Eppse, A.B., M.A.—Director of the Division of History and  
 Geography and Professor of History  
 Leon Farbes, Instructor in Woodwork and Industrial Education  
 Edward Ferguson, Jr., A.B., M.S., Ph.D.—Professor of Biology  
 Marshall Fields, B.S.—Associate Professor of Sheet Metal  
 Mattye C. Flowers, A.B., M.S.—Itinerant Teacher Trainer and Asso-  
 ciate Professor of Home Economics Education

Walter A. Flowers, B.S., M.S.—Director of the Division and Professor of Agriculture  
 J. W. Ford, B.S.—Technician, Department of Animal Industry  
 Geraldine B. Fort, B.S., M.A.—Associate Professor of Textile and Clothing  
 Samuel H. Freeman, B.S., M.S., M.D.—Instructor in Health and Physical Education  
 Mildred Gaines, B. S., M.A.—Instructor in Business Education  
 Earl L. Gary—Technician, Shoe Repair  
 Sadie C. Gasaway, B.S., M.A.—Instructor in Mathematics  
 Mattie L. Gordan, B.S.—Instructor in Business Education  
 Elliot H. Gray—Instructor in Aviation  
 Henry C. Hardy, B.S.—Instructor, Farm Management  
 \*Erna B. Jones, B.S., M.S.—Director of the Division and Professor of Home Economics Education  
 Hinton C. Jones, A.B., M.A.—Instructor in English  
 Millicent D. Jordan, A.B., M.A.—Instructor in Speech and English  
 Robert H. Jordan, A.B., M.A.—Assistant Professor of Biology  
 Gladys R. Kellogg, A.B., M.A.—Instructor of Romance Language  
 Keyes, Karl Martin, B.S., M.S.—Associate Professor of Agricultural Engineering  
 King, Cornelius, B.S., M.S.—Associate Director of Division and Professor of Agricultural Education  
 Harry E. Lash, A.B.—Assistant Instructor in Architectural Drawing  
 Mary E. Lee, A.B., M.Sc.—Associate Professor of Social Administration  
 Elsie M. Lewis, A.B., M.A., Ph.D.—Professor of History  
 John H. Lewis, B.A.—Assistant Professor in Business  
 Iola E. Lewis, A.B.—Instructor in English  
 Crawford B. Lindsay, A.B., M.A.—Associate Professor of English  
 James U. Lowe, A.B., M.A.—Assistant Professor in Chemistry  
 Velma S. Lowe, A.B., B.L.S.—Instructor in Library Service  
 Charity M. Mance, A.B., M.A.—Associate Professor of Education  
 Eunice Matthew, B.S., M.A., Ph.D.—Professor of Education  
 Ernest Mabins, B.S.—Technician, Welding  
 Neal McAlpin, B.S., M.S.—Assistant Professor of Agriculture  
 McDougald, Lois C., A. B., A.M.—Assistant Professor of History  
 Catherine McKinney, B.S.—Instructor in Textiles and Clothing  
 Frederick J. D. McKinney, B.S., M.A.—Assistant Professor of Social Studies  
 Lewis W. McKissack, A.B., B.S.—Professor of Architectural and Mechanical Drawing; Chairman of Department of Engineering  
 Vernon McCain, B.S., M.S.—Instructor in Health and Physical Education  
 Mae Etta McCain, B.S.—Assistant in the Department of Elementary Education  
 William C. McNeill, B.S.—Acting head of the Department and Associate Professor of Physics

Marion Richards Myles, B.S., M.A., Ph.D.—Associate Professor of Biology  
 Virginia S. Nyabongo, A.B., M.A., Ph.D.—Professor of Romance Language  
 Roberta O. Peddy, B.S., M.A.—Assistant Professor of Elementary Methods and Supervision  
 Charles Parrish, B.A., M.A., Ph. D.—Visiting Professor of Sociology  
 Irene B. Peebles, B.S.—Assistant in Nursery School  
 Kathleen H. Poag, A.B., M.S.—Instructor in Sociology  
 Thomas E. Poag, A.B., M.A., Ph.D.—Director of the Division of Humanities and Professor of English and Speech  
 Gwendolyn Pyrtle, B.S., D.S. C.—Instructor in Biology  
 Sara P. Robinson, B.S., M.S.—Instructor in Home Economics, Resident Teacher Trainer  
 Collye L. Riley, A.B., B.L.S.—Assistant Professor of Library Service  
 Charles E. Rochelle, B.A., M.A., M.S., Ed.D.—Visiting Professor of Education  
 Alvin W. Rose, A.B., A.M., Ph.D.—Director of Division of Political and Social Science, and Professor of Sociology  
 Clem Russ, B.S., M.S.—Assistant Professor of Biology  
 Cecil Ryan, B.S.—Assistant Professor of Aviation Education  
 Frances A. Sanders, B.S., M.A.—Professor of Elementary Education  
 Annie G. Sasser, B.S., M.S.—Instructor of Mathematics  
 Earl L. Sasser, B.S., M.A., Ph. D.—Professor of English  
 Bertha M Sawyer, B.S., M.A.—Consultant in Home Economics  
 \*Adolph T. Scott, B.A., M.A.—Assistant Professor of Economics and Business Administration  
 John H. Sharpe, B.Mus., M.Mus.—Chairman and Professor of Music  
 Alfred W. Shute, B.S., M.S.—Professor of Animal Husbandry  
 Beulah S. Shute, B.S.—Instructor in Foods and Nutrition  
 Major F. Spaulding, B.S., M.S., Ph.D.—Head of the Department and Professor of Agronomy  
 Alfred S. Spriggs, B.S., M.S.—Assistant Professor of Chemistry  
 Preston E. Stewart, B.S.—Associate Professor of Building Construction  
 Marie B. Strange—Director of Concert Singers and Assistant Professor of Music  
 Harry W. Taylor, B.S.—Instructor of Auto Mechanics  
 Henry L. Taylor, B.S., M.S.—Assistant Professor of Poultry  
 Frances E. Thompson, B.S., M.A.—Professor of Art  
 Erly J. Thornton, B.S., M.S., Assistant Professor of Poultry Science  
 Charlie F. Tillman, A.B., A.M.—Associate Professor of Education  
 Carr A. Treherne, A.B., M.D.—Instructor in Health and College Physician  
 Mazie O. Tyson, B.S., M.A.—Head of Department of Geography, Associate Professor of Geography  
 Alma T. Watkins, B.S., M.A.—Chairman of the Department of Modern Foreign Language, Associate Professor of Romance Language

Furman F. Williams, B.S.—Head, Department of Building Trades  
 Velma V. Watters, A.B., M.A., Assistant Professor of Education  
 David A. Williston, B.S.—Professor of Horticulture and Landscape  
 Architecture  
 Peggy Williams, B.S.—Instructor in Physical Education  
 Louis J. Willie, A.B., M.B.A.—Instructor of Business Education  
 \*Raleigh Wilson, B.S., M.A.—Associate Professor of History  
 Theodore R. Wood, B.S.—Technician, Department of Animal Industry  
 Hazel L. Wright, A.B., M.A.—Instructor in Romance Languages  
 \*On leave

## GENERAL INFORMATION

### Historical Statement

The State Normal Schools of Tennessee were established by an act of the General Assembly of 1909. That Act was popularly known as the General Education Bill, and included appropriations for all public school agencies of the state.

Agricultural and Industrial State Normal School at Nashville opened June 19, 1912. In 1922 the institution was raised to the status of a four-year state teachers' college, and was empowered to grant the bachelor's degree. The first degree class was graduated in June, 1924.

In 1941 the General Assembly authorized the State Board of Education to establish a program of studies in Elementary, Secondary, and Vocational Education leading to the master's degree.

The plant of Tennessee State College is evaluated at more than three million dollars and the campus is one of the most beautiful in the entire South. It is situated on the banks of the Cumberland River. It is located in the corporate limits of the city of Nashville.

The Summer Quarter has the use of the entire plant of the College including dormitories, dining halls, recreation rooms, laboratories, and libraries.

### Purpose of the College

The General Education Law of 1909 which created the state teachers' training schools clearly defined the purpose for which they were established. The law outlined the nature and scope of "the education and professional training of the teachers for the public schools of the State." Accordingly the Agricultural and Industrial State College attempts to give those who attend it the education, discipline, training, and skill that will best prepare them to teach in public schools. The aim of the school is to prepare teachers for high school and elementary positions and to carry out the agricultural and industrial programs laid down for land-grant colleges.

### Living Accommodations

There are four residence halls on the campus which provide opportunities for personal, social, and intellectual companionship and experience in group living. Each student should bring a pillow, sheets, pillow cases, spreads, blankets, curtains, towels, dresser and table covers and any other articles which will make rooms comfortable and attractive. Excellent meals are available in the college cafeteria.



### Entertainment and Recreational Facilities

Nashville, the Athens of the South, offers unusual cultural advantages because of the neighboring colleges and civic organizations which sponsor varied programs—concerts, lectures, dramatic productions. Sections of the city and the environs are of remarkable scenic beauty.

Artificial lakes and nearby sites are available for picnics and outings. The Recreation Hall is open for social dancing and parties. In the Gymnasium there are provided facilities for all: a swimming pool, badminton courts, table tennis, volley ball, and other sports. College tennis courts are open to all students.

### Accreditation

The College is accredited by the Southern Association of Colleges and Secondary Schools and by the American Association of Teachers Colleges as a Class A institution. It is a member of the Teachers College Extension Association.

## ADMISSION TO THE SUMMER QUARTER

Admission to the Summer Quarter is granted on the same terms as in other regular quarters to students seeking either undergraduate or graduate credit, and to auditors. Undergraduates may register for 9 hours of credit (3 full courses) per term of six weeks; graduates may register for 6-7½ hours of credit (2-2½ full courses) per term of six weeks. Auditors may enroll in any three courses per term.

Students who plan to work toward degrees should present to the Registrar complete transcripts of high school and college credits before registration.

## CREDIT AND CLOCK HOURS

Courses without laboratory normally meet six hours per week for six weeks, and offer three quarter hours of credit each.

Courses with laboratory normally meet twelve hours per week and offer four hours credit. The summer term is divided into two six-week periods.

## CLASS ATTENDANCE AND ABSENCES

For credit in a course, a student may not enter after the class has met one time more than the number of hours credit the course carries. Absences are counted beginning with the first day after registration.

A record of the student's attendance and punctuality in each class is kept by the instructor as an inseparable part of the student's achievement. When, in the instructor's judgment, a student's absences cause his classwork to suffer, the instructor shall request the Dean of the College to drop the student from the class with an "F" (failure).

## CLASS AUDITORS

All classes of the Summer Quarter are open to auditors; that is, to persons who desire to attend classes without receiving any credit. Auditors may register for any three courses at any time during a term, but will not be permitted to take examinations in the courses audited.

## EXAMINATIONS

**Final.** In each term, final examinations will be held in all classes on the hours of the last class meeting.

**Condition.** Conditions incurred in any quarter must be removed by taking examinations in the subjects conditioned during the first week of the student's re-enrollment in the College. Definite arrangements for condition examinations must be made by the student with the Registrar.

## CHANGES IN COURSE OF STUDY

1. To drop a course, after registration has been completed, a student must obtain a statement of permission, signed by his faculty adviser, the division director, and the teacher of the course, and present it to the Registrar for permanent record.

2. To enroll in a course, after registration has been completed, a student must obtain a statement of permission signed by his faculty adviser and the division director, and present it to the Registrar for permanent record.

## FEEES AND EXPENSES

	3 Wks*	6 Wks	12 Wks
Maintenance Fee	7.25	14.50	29.00
Tuition (charged only to out-of-state students)	18.75	37.50	75.00
Board	19.95	37.90	75.80
Room	3.75	7.50	15.00
Fee per course for one or two courses			8.50
Special Training Tuition			
Late registration fee	5.00	5.00	5.00
Diploma Fee	10.00		

\*Applies to workshop students only.

Please send all monies by money order or cashier's check payable to A and I State College.

## GRADUATE STUDY

Course requirements. For the master's degree, a total credit of forty-five quarter hours is required, consisting of one major subject and two minors, or one major and one minor. With the approval of the Committee on Graduate Study, all work may be done in the major subject, but must be done under at least two professors. Credit in the major subject, including the thesis, shall be not less than nine nor more than eighteen hours.

As undergraduate prerequisites for graduate study, a student must have completed his major and minor subjects such work as the departments concerned, with the approval of the Committee on Graduate Study, may require. The prerequisite for a graduate major usually amounts to an undergraduate major or its equivalent, and in no case may be less than two courses of full collegiate grade extending through the year. Deficiency in undergraduate prerequisites must be made up by taking courses for which graduate credit will not be given.

At least thirty-six quarter hours of credit in the major subject (exclusive of the thesis) must be from courses in the 500 group. To obtain graduate credit in courses numbered 300 and 400, a graduate

student must do more and better work than undergraduate students. Only those courses numbered 300-600 will be accepted for credit toward a Master's degree.

The Summer Quarter offers major work in the departments of Agriculture, Business Education, Economics, Education, English, History, Home Economics, Industrial Education, Physical Education, Political Science, Psychology, and Sociology. Minors are available in many other departments not offering strictly graduate courses.

Other regulations. Graduate students completing their theses during the Summer Quarter shall submit their thesis to their major professor not later than July 9, and the professors, after examination and approval of the thesis, shall submit them to the Committee on Graduate Study for final approval not later than July 30.

The residence requirement for the Master's degree may be satisfied by the three complete Summer Quarters of twelve weeks each. It is not required that the work be taken in consecutive sessions, although this is preferable. Students must complete the requirements for a Master's degree within six years after the date of entrance into the Graduate School. Students who, in finishing thesis of courses, use the resources of the College (the professors for conferences, the library, etc.) during a fourth Summer Quarter must pay all the regular graduate fees for such term or terms of work.

Graduate students working on theses may not register for more than six hours of credit in each term. Those not working on theses may register for a maximum of seven and one-half hours. The thesis should be started in the first term.

A minimum grade of "C" and an average grade of "B" or better are required of those to whom a master's degree is awarded. A final oral examination, in addition to the regular course examinations, is required of all candidates.

## INSTRUCTIONAL OFFERINGS

UNDERGRADUATE DIVISION—Courses leading to teacher's certificates and the bachelor's degree—maximum load 18 quarter hours for 12 weeks or 9 quarter hours for 6 weeks.

A. All required education courses needed for renewal or securing of high school or elementary certificates.

B. Major courses in the Division of Agriculture, Business, Engineering, Home Economics and Liberal Arts.

C. Freshman required courses for high school graduates who desire to begin their college course in June.

GRADUATE DIVISION—Courses leading to master's degree—maximum load 15 quarter hours per 12 weeks or 7½ quarter hours per 6 weeks.

WORKSHOPS—Three weeks only (June 7-26) maximum credit 4½ quarter hours.

A. Vocational Agriculture—for experienced and prospective teachers of Smith-Hughes Vocational Agriculture.

B. Aquatic School (June 21-July 1)—Conducted by the American Red Cross to train recreational leaders in various forms of first aid and water safety.

### TEACHERS' CERTIFICATES

Every student who wishes to earn a teacher's certificate or to renew one should write to his own state department of education for the regulations regarding the issuance and renewal of certificates in his own state. This should be done before the student enters the Summer Quarter so that he may plan his summer study to include courses needed for certification.

## TENNESSEE TEACHERS' CERTIFICATE REQUIREMENTS

For complete information regarding certification, Tennessee teachers should see a faculty adviser in the College of Education. Following is a brief summary of these requirements:

### New Professional Certificates

Supervisor's Certificate requires that applicant:

- a. Be a graduate of an approved college or university;
- b. Have completed at least twenty-seven quarter hours in education, including general and special methods; school supervision and administration;
- c. Have had twenty-four months' experience in school work; and
- d. Be not less than twenty-four years of age.

High School Teacher's Certificate requires that applicant:

- a. Be a graduate of an approved college or university;
- b. Have completed twenty-seven quarter hours of Education, including:
  - (1) Educational Psychology, 3 hours (Ed 243)
  - (2) Principles and organization of secondary education, 3 hours (Ed 341).
  - (3) Materials and methods in high school subjects and directed or practice teaching, 9 hours (Ed 342-471-72); or materials and methods in high school subjects, 9 hours.
  - (4) Elective (No more than 3 hours in each), 12 hours, chosen from: (a) history of education; (b) adolescent psychology; (c) educational tests and measurements; (d) high school administration, and management; (e) education sociology; (f) curriculum of the high school; (g) philosophy of education; (h) general psychology (i) mental hygiene.
- c. In addition, for certification in particular subject matter fields a high school teacher must complete:
  - (1) Art, a minimum of eighteen quarter hours.
  - (2) Bible, a minimum of eighteen quarter hours.
  - (3) Commercial subjects, a minimum of 27 hours in the commercial Law, and economics, a minimum of 9 hours in each; to teach office management and salesmanship, a minimum of 6 hours in each.
  - (4) English, a minimum of 36 quarter hours.
  - (5) History and other social sciences; to teach history a minimum of 18 quarter hours in history, including 6 hours each in American and European history, and 9

- hours in related social sciences—civics, commercial law, economics, geography, and sociology. To teach any of these related subjects 6 hours are required, with the exception of civics, for which 3 hours are required.
- (6) French, German, Spanish, Latin, a minimum of 18 hours in each.
  - (7) Home economics (non-vocational), 36 quarter hours, including 12 hours each in foods and nutrition; clothing and textiles; and home management house furnishings, child care, and home nursing.
  - (8) Industrial arts, 27 quarter hours. To teach woodwork, metals, applied electricity, graphic arts, and mechanics, 9 hours in each are required. To teach in any one of these fields, 18 quarter hours are required.
  - (9) Mathematics, 18 quarter hours, including college algebra.
  - (10) Physical education and health, 21 quarter hours, including a minimum of 9 hours in health, 9 hours in physical education, and 3 hours in health and physical education (education). (For specific course requirements, consult the Department concerned.)
  - (11) Music, 18 quarter hours, including theory, harmony, history, and appreciation of music.
  - (12) Science, 27 quarter hours, including 9 hours in those sciences he is certified to teach (biology, chemistry, physics). To teach general science, two of these sciences must appear on a certificate. To teach biology, courses in biology or botany and zoology must be offered.
  - (13) Speech, 18 quarter hours, including such courses as fundamentals of speech, dramatics, public speaking, debating, etc.
  - (14) Vocational subjects (agriculture, home economics, trades and industries). Write the Division of Vocational Education, State Department of Education, for detailed information.

**Elementary Teachers' Certificate requires completion of:**

- a. Six quarters, 72 weeks, in study in an approved college or university.
- b. Completion of 90-108 quarter hours of credit, including:
  - (1) Arts, fine and practical, appreciation and applied, 6 hours.
  - (2) General and child psychology, 6 hours.
  - (3) Materials and methods in elementary school subjects and supervised observation of teaching, 9 hours.

- (4) Directed participation and teaching, 3 hours.
- (5) English composition, oral and written, 9 hours.
- (6) Survey of English and American literature, 6 hours.
- (7) Children's literature, 3 hours.
- (8) Health, including health service, nutrition, and health instruction content, 9 hours.
- (9) Music, appreciation of and public school, 6 hours.
- (10) Physical education, plays and games, 3 hours.
- (11) Biological science or nature study, 9 hours.
- (12) Social sciences, problems of civilization or American history and civics, 9 hours; and geography, 9 hours.
- (13) Electives, 2 to 21 hours.

**Renewal of Certificates.** Work for renewal must be begun during the life of the certificate. To renew a certificate, the applicant must complete the following:

- a. For a two-year examination certificate, 6 weeks residence in college and three courses given at least 6 quarter hours of credit.
- b. For a four-year examination certificate, 12 weeks residence and 12 quarter hours of credit, including 3 hours in Education.
- c. For a four-year professional certificate 12 weeks residence and 12 quarter hours of credit (including 3 hours in Education), and evidence of two years of teaching experience during the life of the certificate.
- d. For a one-year professional certificate, 12 weeks residence, and 12 quarter hours of credit, including 3 hours in Education.

## SPECIFIC QUALIFICATIONS FOR ELEMENTARY TEACHERS

### A Professional Certificates.

A permanent professional certificate shall be issued to the applicant for the position of teacher in elementary schools who has completed a two-year curriculum for elementary teachers in a State Teacher College or State Normal School or an equivalent curriculum in the University of Tennessee, or other college or university approved by the State Commissioner and State Board of Education, who has had at least 18 quarter hours in education.

The two-year curriculum requiring 72 weeks in college, completion of a minimum of 90 quarter hours of credit, 18 of which are in education, is as follows:

	Qt. Hrs.	
1. Arts—Fine and Practical, Appreciation and Applied	6	
2. Education—		
a. Psychology—General and Child	6	
(Schools on semester plan may take these 2 semester hours each.)		
b. Materials and methods in the various elementary school subjects, including supervised observation. (Should include such subjects, as the teaching of reading, arithmetic, spelling, penmanship, language, geography, health, etc., or in the new type of curriculum, large units, activities for various grades, citizenship, local and state history	9	
c. Directed observation, participation and teaching	3	18
3. English—		
a. Composition, oral and written	9	
b. Survey, American and English Literature	6	
c. Children's Literature. (Should include world literature suitable for children)	3	
4. Health. (May include such subjects as personal, child, and community hygiene; child care; nutrition; children's diseases)	9	
5. Music—Appreciation and Public School Music	6	
6. Physical Education. This should be plays and games for elementary schools	3	
7. Science—		
a. Science for the grades, or nature study, or general science	9	
b. or Biology	9	9

8. Social Science—		
a. Problems of Civilization	9	
or American History and Civics	9	
b. Geography	9	18
9. Electives	From 3	to 21
Total range for the two-year curriculum—from 90 to 108 Quarter Hours.		

Applicants who entered college before the fall term of 1938 are not required to conform to the two-year curriculum, but all credits to be earned for elementary certification since 1938 should be selected from the areas set up in the above two-year program.

## COLLEGE GRADUATES WHO DESIRE AN ADDITIONAL CERTIFICATE

(To change from high school certificate to elementary certificate after graduation and vice versa.)

The holder of a permanent professional high school certificate may obtain the permanent professional elementary certificate upon completion of the following courses:

1. Methods:		
a. Teaching the social studies in grades	3	
b. Teaching the language arts	3	
2. Public school music for elementary grades	3	
3. Art for elementary grades	3	
4. Health for elementary grades	3	
5. Student teachings on the elementary school level	3	
Total		18 Qt. Hrs.

The holder may change from a permanent professional elementary certificate based on four-year curriculum to high school:

1. Meet the quarter hour requirements in high school subjects	6	
2. Materials and methods courses in two fields of secondary subjects in which the applicant will become certified	6	
3. Principles of secondary education	3	
4. Student teaching on the secondary level in a certified area	3	
Total		18 Qt. Hrs.

The above was approved by the State Board of Education on May 8, 1942, and applies to those who enter college with the fall term of 1938 or since and wish to change from the area of teaching to the other.

## CHANGES IN CERTIFICATION REQUIREMENTS FOR HIGH SCHOOL TEACHERS

Effective July 1, 1949

Approved by the State Board of Education, November 8, 1946

I. French, German or Spanish. The applicant shall offer a minimum of 27 quarter hour credits for certification in each modern language.

### II. Library Science

A. Librarian (whole-time). 45 quarter hours credits. Graduation from a library school accredited by the American Library Association or from an institution accredited by the State Board of Education with 45 quarter hours in library science.

B. Teacher-Librarian. 18 quarter hours credits. Bachelor's Degree from a college approved by the State Board of Education for teacher training with a minimum of 18 quarter hours in library science. This training shall include:

1. Administration
2. Bibliographic or Reference
3. Practical Work

Any teacher-training institution, approved by the State Board of Education, which plans to train teacher-librarians should apply for inspection of its library facilities to the State Department before beginning the training.

### III. The professional requirements for high school teachers are:

- |  |                                     |
|--|-------------------------------------|
| A. Education, Psychology   | 3 quarter or 3 semester hour credit |
| B. Principles of Secondary Education   | 3 quarter or 3 semester hour credit |
| C. Materials and methods of or Teaching Methods in Certified Teaching Areas and Materials and Methods or Teaching Methods in Certified Areas | 6 quarter or 3 semester hour credit |
| or<br>Directed and Practice Teaching in Certified Areas<br>and<br>Materials and Methods or Teaching Methods in Certified Areas               | 3 quarter or 3 semester hour credit |

**TOTAL** 15 quarter or 12 semester hour credit

Note: The materials, methods and teaching courses or practice teaching courses will be limited to those areas of study in which the student will become certificated. The practice teaching credits must show on the application for certification the areas in which the teaching is done. Practice teaching will be limited to a maximum of 6 quarter hours unless an inspection by the State Board of Education indicates the facilities are adequate for additional credits.

D. The remaining 12 quarter hours or 6 semester hours of the 27 quarter hours or 18 semester hours required for certification are elective and will be selective from the list of courses as now outlined on page 7 of the certification bulletin.

IV. Public School Music. The application shall offer a minimum of 36 quarter hour credits in music as follows:

- |   |                        |
|---|------------------------|
| A. Theory                                   | 9 quarter hour credits |
| B. Applied Voice                            |                        |
| 1. Voice                                    | 6 quarter hour credits |
| 2. Piano                                    | 3 quarter hour credits |
| 3. Winds and Percussion                     | 3 quarter hour credits |
| C. Appreciation and History                 | 3 quarter hour credits |
| D. Conducting                               | 3 quarter hour credits |
| E. Instrumentation or Arrangement of Music  | 3 quarter hour credits |
| F. Teaching Public School Music—High Sch.   | 3 quarter hour credits |
| G. Teaching Band and Orchestra in High Sch. | 3 quarter hour credits |

THE ABOVE CHANGES WILL BECOME EFFECTIVE JULY 1, 1949.

## COLLEGE TESTING BUREAU

Testing Bureau. The school maintains a testing bureau for the service of the college and the public schools of the State. Primarily the bureau offers the service of machine scoring standardized tests.

The bureau will open during the summer quarter and offers the following services to public school teachers enrolled in summer school:

1. A demonstration of machine scoring of tests and instruction relative to special pencils and answer sheets which must be used if tests are to be machine scored.
2. Information relative to publishers and catalogues, and assistance in selecting standardized tests for any subject, grade, or any special purpose such as intelligence testing, diagnosing subject disabilities, discovering interests by means of interest inventories, and personality testing.
3. Assistance in planning a testing program for a school.
4. A display of the better types of public school tests.

Summer school students interested in any or all of the above services should register the interest with the Dean not later than the first week of summer school. If the group is large enough a seminar class in public school testing will be arranged and credit given for the course.

## PROGRAM FOR VETERANS

### STATEMENT OF PURPOSE

The Office of Veterans' Affairs (Industrial Building Room 201) is maintained for the following reasons:

To inform military personnel about to be discharged or veterans already discharged of their rights under the provisions of the Servicemen's Readjustment Act (Public Law No. 346, 78th Congress)

To explain how these benefits apply to Veterans (men and women) who wish to enroll in Tennessee State College

To give counseling service to veterans when they register in the college, and

To serve as a liaison between governmental and local agencies and the college on problems relating to the Veteran for wholesome adjustment.

### ADMISSION

All veterans interested in the education offered by Tennessee State College, write to the Officer of Veterans' Affairs either using the Veterans' application blank or writing a letter. The Education Counselor will see that your questions are promptly and authoritatively answered and will provide you with all the information for admission to the College.

All veterans who are entering Tennessee State College as new students must file an application on the approved Veterans' application blank, and submit previous scholastic record from either high school or college and a photostatic copy of honorable discharge. Applications must be on file one month prior to date of registration. Final decision on admission is in the hands of the Committee on Admissions. All scholastic records will be submitted to the Registrar for evaluation.

All former students who are now veterans must file an application for readmission on the Veterans Application blank and return to the Office of Veterans' Affairs one month prior to re-entrance.

In order to expedite time in receiving subsistence checks, veterans are advised to contact their local Veterans Administration Office at the earliest possible date after discharge to apply for educational benefits under the G I Bill of Rights. If the veteran is eligible for training he will receive a Letter of Eligibility and Entitlement which he is requested to bring to the college on the day of registration.

All inquiries relative to the education of veterans under the G I Bill of Rights are centralized in one office as a matter of convenience, veterans who are considering applying for admission or readmission to Tennessee State College should write directly to:

Office of Veterans' Affairs  
Tennessee A & I State College  
Nashville 8, Tennessee

## FEEES

Tuition costs, laboratory fees, books and supplies for the furtherance of the Veteran's education, the total cost not to exceed \$500.00 a school year will be paid to the college by the Federal Government in accordance with established charges to other students. Board, other living expenses and travel incident to the student's education will not be paid by the Veterans Administration, but by the individual. Room and board must be paid in advance.

## LIVING ACCOMMODATIONS

Due to the over-crowded condition that exists in the dormitories, comfortable living quarters are not available to additional students on the campus, but applications for rooms in the Veterans dormitories may be made in the Office of Veterans Affairs. Vacancies are filled according to date of application. At the present time Veterans may enroll as day students and live in the city.

## COURSES OFFERED

Veterans who qualify are permitted to enroll in any department that is open to other students with the same qualifications. The division of Agriculture, Business Administration and Engineering offer special terminal courses to those persons who are of sub-college level or those who do not plan to work toward a degree. Upon satisfactory completion of work in these special courses, the student will receive a certificate of attainment.

The Vocational Trade Division offers the following courses:

Auto Mechanics	Shoe Repairing
Aircraft Mechanics	Radio Repairing
Woodworking	Bricklaying and
Drafting	Trowel Trades
Plumbing	Repairing of Household Appliances
Machine Shop	Sheet Metal
Arc and Electric Welding	

The general entrance requirements will be those for admission to high school or above. It is preferred that veterans who will enroll for these courses will have had at least two years of high school work, however, the institution will not deny any veteran the opportunity of preparing for gainful employment if he has not had two years of high school work. A trainee must be able to read understandingly literature in his respective field.

Veterans who have not completed high school are eligible to enroll in Vocational Trade Courses not leading to a degree.

## CLASS ATTENDANCE

Veterans are required by the Veterans Administration to attend classes regularly. When a veteran is absent three consecutive days without notice to the Office of Veterans' Affairs that the absence is due to illness or for some other good reason, the Office of Veterans' Affairs is required on the third day to notify the Veterans Administration on the presumption that training has been interrupted or discontinued, whereupon, the Veterans Administration will discontinue the veteran's subsistence allowance.

Veterans' training, conduct, and progress must at all times be maintained in a satisfactory manner, conforming to the ideals of Tennessee State College.

## COURSES OFFERED IN SUMMER QUARTER 1948

### Divisions of Instruction Arranged Alphabetically

The College does not guarantee to conduct courses enrolling fewer than ten students. Courses numbered 300 and below are undergraduate; those numbered in the 400's may be taken for undergraduate or for graduate credit; those numbered 500 and above are graduate. Unless otherwise stated, all courses meet daily and carry three quarter hours of credit.



## DIVISION OF AGRICULTURE

The Division of Agriculture offers instruction in the general field of agriculture and provides the student with the opportunity for specialized training in one Major and one Minor field of concentration in Agriculture. This gives the foundation required for those who desire to go directly into farming, teach vocational agriculture in the secondary schools, enter the field of agricultural extension work, or to enter some more specialized phase of the agricultural industry.

### AGRICULTURAL WORKSHOP

June 7-25, 1948

The program for the Summer Workshop for Teachers of Agriculture will be devoted to Agricultural Engineering For All Types of Classes, and supervision of programs in Institutional On-Farm Training for Veterans. Our plan is to work with our In-Teachers of Vocational Agriculture for fifteen days. The morning periods will be devoted to Agricultural Engineering and the afternoon periods devoted to Institutional On-Farm Training for Veterans.

A study will be made of the problems confronting In-Service Teachers of Agriculture in each of the areas considered. Time will be given to methods of teaching farm shop, together with development of skills necessary for the teacher of Agriculture to know.

The Summer Workshop will be open to In-Service teachers, graduate students and advanced undergraduate students. The course will offer 4½ hours of graduate credit or 4½ hours of undergraduate credit.

### DESCRIPTION OF COURSES

#### First Term

A Ec 201. **Agricultural Economics.** (3) The principles of economics as applied to the special problems of agriculture, land values, farm ownership, tenancy, farm credit, farm labor, price movements, and marketing.

A Ec 301. **Marketing Agricultural Products.** (3) The development of marketing, its scope, channels and agencies of distribution, functions, costs, methods used and services.

A Ed 402. **Methods and Materials in Special Education for Out-of-School Youths and Adults.** (3) A consideration of the problems of organization and leadership of out-of-school groups in rural areas. Special attention is given to the use of the conference procedure with its utilization of the greater background of experience of the members of part-time and evening classes.

A E 201. **An Introduction to Agricultural Engineering.** (3) A study of the field of agricultural engineering, power in agriculture, power transmission, belts, gears, mechanisms, bearings, gauges and measurements, and laboratory techniques. Prerequisite: Permission of the Directors of the Division and the Head of the Department.

A E 301. **Farm Buildings, Materials and Methods.** (3) A study of farm building materials, concrete, lumber, roofing, insulation, ventilation, points, and finishes, including use, methods of application, cost estimates from drawings, blue-prints and quantity surveys, within the area.

Agr 202. **Soils.** (3) An introduction to the study of the principles of soil formation, the nature and properties of soils and their relation to plants. Prerequisites: Chemistry 101-2-3.

Agr 203. **Fertilizers.** (3) The sources, manufacture and properties of fertilizer materials; formulation and preparation of mixed fertilizers; the principles of fertilizer application.

Agr 502. **(Fiber other than Cotton) Sugar and Root Crops.** (3) The distribution, characteristics and cultural requirements of flax, hemp, sugar cane and sugar beets. Prerequisite: 202.

Agr 521. **Seminar.** (1) Discussions of current literature in Agronomy. Prerequisites: 201-2 and permission of the instructor. 1 hour credit each quarter.

A I 201. **Elements of Dairying.** (3) Introductory course surveying the general field of Dairy Husbandry. Economic importance, breeds of dairy cattle, their care and management, the composition and care of milk.

A I 301. **Purebred Livestock Production (Horses, Sheep and Swine).** (3) A study of the origin, development and characteristics of the major breeds of horses, sheep and swine. Care and management of purebred stock.

A I 501. **Animal Feeding.** (3) Study of the development in animal feeding; experimental procedures and applications in commercial feeding.

A I 521. **Animal Industry Seminar.** (1) Discussion of current Animal Industry literature.

H 103. **Vegetable Gardening.** (3) A basic study of the principles and practices of home gardening.

H 301. **Landscape Plants.** (3) A study of form, habit, texture, and adaptation of trees, shrubs, vines and herbaceous plants used in ornamental planting.

H 302. **Plant Propagation.** (3) A study of the methods of propagating horticultural plants which includes seedage, cutting, grafting of both economic and ornamental plants.

H 311. **Commercial Vegetable Production.** (3) A course dealing with the principles and practices of commercial vegetable production. A study will be made of varieties, cultural practices, insect and disease controls, grading, packing, storing, and marketing.

P H 101. **Principles of Poultry Production.** (3) The principles and practices underlying reproduction and growth of the domestic fowl. It includes the study of breeds, varieties and types of poultry.

P H 301. **Poultry Physiology and Nutrition.** (3) The nutritive requirements of the fowl are considered together with metabolism of nutrients, respiration, digestion and excretion. The feeding of chicks on deficient diets, influence of hormone administration on primary and secondary characters and surgical techniques.

P H 331. **Poultry Seminar.** (1) Required by all Juniors majoring in poultry husbandry and continued into the Senior year.

#### Second Term

A Ec 401. **Farm Finance.** (3) Farmers' credit needs, methods of financing agriculture, and institutions supplying credit.

A Ec 411. **Tabular and Graphic Presentation of Data.** (3) A study of tables and charts of simple magnitudes and their use in presenting statistical data.

A E 401. **Farm Power and Machinery.** (3) This course includes the repair, operation and construction of tillage, seeding and harvesting machinery, and such service implements as wagons, manure spreaders, and fertilizer distributors. A part of this course will include a study of the construction operation and servicing of gas engines and tractors, supplemented with the performance tests of gas engines and tractors in the laboratory.

Agr. 201. **Field Crops.** (3) A survey of the different uses of land, crop characteristics, adaptation, culture and use of the more important field crop plants. Prerequisites: Biology 101 or Botany 111.

Agr 402. **Soil Conservation and Management.** (3) A study of tillage, drainage, fertilization and rotation practices as they affect the productive capacity of field soil.

Agr 501. **Plant Breeding.** (3) A study of the methods, principles and results of plant improvement work. Hereditary variation and the general principles of plant breeding. Prerequisites: 201, Biology 111.

Agr 522. **Seminar.** (1) Discussions of current literature in Agronomy. Prerequisites: 201-2 and permission of the instructor. 1 hour credit each quarter.

A I 311. **Dairy Farming.** (3) Care and management of the dairy herd; study of buildings and equipment; clean milk production and sanitary regulations.

A I 401. **Creamery Practice.** (3) The care and operation of dairy equipment. Production and storage of dairy products.

A I 511. **Animal Improvement.** (3) Study of the work being done by the Department of Agriculture and other agencies in animal improvement.

A I 522. **Animal Industry Seminar.** (1) Discussion of current Animal Industry literature.

H 102. **Landscape Gardening.** (3) Plant materials suitable for home and school beautification.

H 404. **Processing of Fruits and Vegetables.** (3) A study of current practices in the processing of fruits and vegetables. In addition to laboratory work, the course will include visits to freezing and dehydrating plants, and canning factories.

P H 401. **Poultry Hygiene and Sanitation.** (3) The principles underlying sanitation and disease prevention as applied to the poultry farm.

P H 411. **Special Problems in Poultry Husbandry.** (1) Each student will be required to make an exhaustive study of some particular phase of poultry husbandry and write a report of his study and research. The work must comprise in part original investigation.

## AVIATION EDUCATION INSTITUTE

Summer Session 1948

### Objectives:

- A To provide teacher training in aviation education.
- B To prepare materials and develop techniques for the introduction of aviation study in the standard school curricula on the college, secondary and elementary levels.
- C To provide flight experience and instruction for aviation teacher trainees.

### Services To The Prospective Trainee:

- A Offers training in the subject matter related to general aviation education for the individual trainee.
- B Provide opportunity of materials which may be of general value or which may be of specific value in the individual school situation of the trainee.
- C Provides opportunity for the trainee to experience and make practical applications of the theories and techniques under actual flight conditions and under supervision of selected flight personnel.
- D A, B and C will give to trainee the background necessary for initiation of aviation study as general education on any level in his home school or institution.

### Sources of Potential Trainees:

- A Anticipated trainees participating in the teacher training program sponsored by the Tennessee Bureau of Aeronautics in cooperation with Fisk University and the Tennessee State Department of Education will serve as a basis. We have requested that the Bureau of Aeronautics will make available sufficient funds to provide scholarships for a minimum of thirty teachers from the State of Tennessee.
- B Institutions on all levels, both within the State of Tennessee (in addition to those of scholarships) and outside the State of Tennessee, which desire to make possible training for members of their staffs will be invited to have these persons attend the Institute on the same cost basis as will apply to the State Scholarship Trainees.
- C Individuals who are teachers, prospective teachers, or who may desire to take the training will be invited to participate as above.
- D Individuals who qualify to participate under provisions of the G I Bills of Rights will be invited on the same basis.

### Unit Charges for Individuals attending the Institute

	Twelve Wks.
Maintenance Fee -----	\$ 25.00
Board -----	75.00
Room Rent -----	15.00
Flight Experience -----	111.00
Instructional Supplies and Material -----	23.00
	<hr/>
Total: (Residents of Tennessee) -----	\$250.00
(Out of State Tuition) -----	75.00
	<hr/>
Total: (Out of State Tuition) -----	\$325.00

NOTE: A limited number of scholarships in the sum of \$250.00 each will be available for in-service teachers who are residents of Tennessee.

### Staff Available for Aviation Education Institute:

James E. Taylor, Jr., A.B., M.S., C.F.I.—Director, Instruction  
 James R. Lawson, Ph.D.—Instruction, Coordination  
 Cecil M. Ryan, A.B., C.F.I.—Instruction  
 George B. Turman, A. & E.—Instruction  
 Fred L. Weatherspoon, C.F.I.—Instruction

### Areas of Interest For The Aviation Education Institute:

#### A General Aviation Education

a A survey course in aviation and general education. Covers subject matter related to the following:

1. Civil air regulations
2. Navigation
3. Meteorology
4. Theories of aircraft and engines
5. Communications
6. Aircraft familiarization
7. Aviation implications in:
  - (a) Social studies
  - (c) Science and mathematics
  - (b) The humanities

Credit—6 semester hours. 108 clock hours.

Te meet 3 times per week—3 hours—12 weeks.

Instruction handled by staff assignments.

**B Work shop in Aviation Education**

- a Study groups to prepare materials and recommend techniques for the introduction of aviation study in the standard curricula. These groups will make studies of the currently adopted and standard text and work book materials and prepare supplementary materials which may be specifically integrated and correlated therewith.

Credit—4 semester hours—72 clock hours

To meet 3 times per week—2 hours—12 weeks

Instruction handled by staff assignments

**C Flight Experience and Instruction**

- a Theory of flight  
 b General aircraft operations and rules  
 c Elementary flight maneuvers  
 d Application of principles of flight

Credit—2 semester hours—36 clock hours

To meet 3 times per week—1 hour—12 weeks

Instruction handled by the staff

**Special Interest Events:**

- A Airport Institute for all teachers attending the summer session  
 B Exhibits, demonstrations and special representatives from and in behalf of manufacturers may be invited.

## DIVISION OF BUSINESS ADMINISTRATION AND BUSINESS EDUCATION

### Objectives and Facilities

The Division of Business Administration and Business Education is one of the largest divisions of the college. Among the aims of this division are the following:

1. To provide training in the methods; techniques, and principles underlying modern business as a foundation for careers in the business field;
2. To provide students with a knowledge and understanding of the changing and developing character of economic society, and of the responsibility of educated men and women engaged in business enterprises;
3. To provide training in those phases of business that concern every member of organized society;
4. To train teachers of business subjects for secondary schools, and
5. To provide specialized instruction for those who wish to engage in specific occupations, including promotional and in-service training for office and distributive occupations.

The division occupies most of the second floor of the Women's Building. The teaching facilities include one large lecture room, one large room for teaching typing, a room equipped for teaching shorthand and accounting and a room equipped for teaching the operation and care of office machinery.

The teaching equipment includes typewriters and varitype machines, multigraph and multilith machines, calculating and adding machines, addressograph, ditto, mimescope and graphotype machines. The typing room is well equipped with metal typist tables and modern steel frame typist chairs.

### First Term

#### Office Administration

201.2 **Calculating and Duplicating.** (6) A study and application of the use of calculating, duplicating, and miscellaneous office machines, to a high degree of skill.

203. **Filing.** (3) Library Bureau Institute outlined courses of 80 hours offering practical work in all modern types of filing, as: Variadex Alphabetic Correspondence, numeric, triple check automatic, geographic, subject, transfer, follow-up methods, tab cards, and Soundex. Office Administration (211 prerequisite.)

211. **Typewriting.** (1) For Office Administration majors, for prospective business majors, and so far as facilities permit for other students

who wish to acquire a working knowledge of typewriting. Special attention is given to practice in preparing typewritten outlines, reports, letters, theses, and bibliographies in accordance with acceptable standards of form and appearance. Three hours, two half laboratory periods. One hour credit.

301. **Shorthand.** (3) The fundamentals of Gregg Shorthand presented and applied through problems and practice in simulated office situations. Prerequisite: Office Administration 211 or equivalent. Three hours credit.

403. **Applied Secretarial Practice.** (3) This course is based on an activity program which provides practical experience in representative type of office situations. Particular attention is given to sources of information on business subjects: preparation of manuscripts, briefs, and reports; relation of the private secretary to the employer: job analyses; improvement of transcription; and supervision of correspondence. One hundred hours of actual office experience are required.

#### Business Education

411. **The Teaching of Typewriting and Shorthand.** (3) For experience and prospective teachers of typewriting, shorthand, and related office practice. Materials of instruction available to teachers are presented and methods of developing original materials are considered and applied through lectures, demonstrations, readings, and reports. Prerequisite: Office Administration 211 and 301, or the equivalent.

#### Business Administration

211. **Principles of Economics.** (3) Principles and problems associated with the production, exchange, and use of wealth. Open to freshmen who have had Economics or Sociology in high school. Three hours credit.

211. **Elements of Accounting.** (3) A basic course in bookkeeping and accounting theory and practice, requiring no previous knowledge of bookkeeping. The bookkeeping process statements, revenue accounts, controlling accounts, accruals, depreciation, bad debts, and various phases of partnership and corporation accounting are treated. A prerequisite to all other courses in Accounting. Two laboratory periods, one hour. Three hours credit.

#### Statistics

321. **Elementary Statistics.** (3) A course in business statistics designed especially for students in Office Administration, Business Education, and Distributive Education. The course consists of a study of statistical sources and collection of data; the presentation of data in tables, charts, and reports; the computation of ratios and percentage, averages, dispersion, and sampling errors. Three hours credit.

#### Business Law

311. **Business Law.** (3) Fundamental principles of law most frequently involved in business transactions, including contracts, sales, partnerships, master and servant, principal and agent, corporations, negotiable instruments, property, bailments, and common carriers, with the view of enabling businessmen to avoid litigation. Three hours credit.

#### MARKETING

311. **Marketing.** A general survey of the Marketing structure, with emphasis upon the functions, methods, policies, cost, and problems of the farmer, manufacturer, wholesaler, broker, retailer, and other middlemen. Special attention is given to principles, trends, and sales policy in relation to marketing efficiency. Three hours credit.

#### INSURANCE

211A. **History of Life Insurance.** A survey of the chronological and historical development of life insurance from its crudest hit-and-miss stage to the scientific institution that it is today. This course also includes the history and development of Negro life insurance. Three hours credit.

211B. **Fundamentals of Life Insurance.** A study of the scientific basis of life insurance with particular emphasis on its vocabulary, property concepts, mechanics, mortality tables, policies and contracts. Three hours credit.

#### Second Term

##### Office Administration

201.-2 **Calculating and Duplicating.** (6) A study and application of the use of calculating, duplicating, and miscellaneous office machines, to a high degree of skill.

203. **Filing.** (3) Library Bureau Institute outlined courses of 80 hours offering practical work in all modern types of filing, as: Vardex Alphabetic Correspondence, numeric, triple check automatic, geographic, subject, transfer, follow-up methods, tab cards, and Soundex. Office Administration (211 prerequisite.)

212. **Typewriting.** (1) For Office Administration majors, for prospective business majors, and so far as facilities permit for other students who wish to acquire a working knowledge of typewriting. Special attention given to practice in preparing typewritten outlines, reports, letters, theses, and bibliographies in accordance with acceptable standards of form and appearance. Three hours, two half laboratory periods. One hour credit.

302. **Shorthand.** (3) The fundamentals of Gregg Shorthand presented and applied through problems and practice in simulated office sit-

uation. Prerequisite: Office Administration 211 or equivalent. Three hours credit.

403. **Applied Secretarial Practice.** (3) This course is based on an activity program which provides practical experience in representative type of office situations. Particular attention is given to sources of information on business subjects: preparation of manuscripts, briefs, and reports; relation of the private secretary to the employer: job analyses; improvement of transcription; and supervision of correspondence. One hundred hours of actual office experience are required.

#### Business Education

412. **Teaching the Social Business Subjects:** (3) Methods of classroom procedure in the teaching of general business, business law, business organization, elementary economics, and other business subjects which have as their major objective the development of a better understanding of the basic principles of business and the ability to solve more intelligently the manifold business problems met by the individual in his personal, social and civic activities. Three hours credit.

### BUSINESS ADMINISTRATION

#### Second Term

312. **Economics.** (3) For description, see Economics 211.

212. **Elements of Accounting.** (3) The bookkeeping process statements, revenue accounts, controlling accounts, accruals, depreciation, bad debts, and various phases of partnership and corporation accounting are treated. Prerequisite Accounting 211. Two laboratory periods, one hour. Three hours credit.

322. **Business Statistics.** (3) This course covers statistical theory and methods directly applicable to the solution of business and economic problems. Major topics: Index numbers; analysis of time series; simple correlation. Prerequisite: Statistics 321. Two laboratory periods, one hour. Three hours credit.

312. **Business Law.** (3) For description, see Business Law 311.

312. **Marketing.** (3) For description, see Marketing 311.

212A. **Salesmanship and Marketing.** This course is concerned with marketing and merchandising the services of life insurance. It includes the psychology of selling, the place of the salesman in society, dress, voice, the approach, the client and professional ethics. Three hours credit.

212B. **Contract Analysis and Programming.** A study of contracts, property features and legal aspects of life insurance. This course is also concerned with planned selling, settlement options, non-forfeiture features, social security and the employment of visual material. Three hours credit.

### DIVISION OF EDUCATION

During the Summer Quarter the emphasis in the Division is placed upon making available (1) institutes for in-service supervisors, principals and teachers of special subjects (2) a program of graduate instruction for advanced students (3) courses in education required for teacher certification (4) courses in education, health and physical education, art, music and library service.

During the Summer Quarter students may carry a full load of subjects leading to the bachelor of science degree, the master of science degree or the master of education degree. Research seminars will be available to assist graduate students in preparing research studies and theses.

In the Department of Health and Physical Education there will be conducted an Aquatic School under the direction of the National American Red Cross. A coaching clinic for directors of athletics in Tennessee will also be made available under the direction of the coaching staff of the institution. The coaching school will be held from June 7 through June 26.

Under the direction of staff members in education the following organizations will be conducted: elementary education club, psychology club, physical education, library service club. Membership in these organizations will be available to students majoring or minoring in the field concerned.

#### ART

##### First Session

101. **Introduction to Public School Art.** (3) This course includes the rudimentary study of design and color and elementary drawing and painting with emphasis upon beautiful hand work. The student is lead to appreciate art by presenting to him and leading him to search for things of beauty in nature and art. There is assigned reading to acquaint the student with the scope of art and its application to daily livink.

200. **A Laboratory Course in Crafts.** (3) Prerequisites: Art 101 or Art 201.

201. **Art Education.** (3) The study of color and design as outgrowth of experiences in art 101 with problems and methods. Development in drawing (representation) and painting (free brush and flat tempera painting.) The student is introduced to the art of lettering applicable to elementary school problems and the teaching of manuscript writing and poster making. The elementary principals of book making are introduced here. Opportunity is given for laboratory work so as to be able to present problems and work with materials used in elementary education. Art appreciation continued.

241. **Hobbycraft.** (3) A craft program suitable for recreation centers, summer camps, Scouts, Girl Reserves and individuals seeking a craft hobby or those interested in pursuing a hobby. It is designed to show possibilities and limitations of craft work to be done with time and material limitations. It is our aim to discover and encourage creative ability and to acquaint students with the tools and techniques of craft work and the making of simple tools. The use of worthwhile waste materials is encouraged.

301. **Pottery craft.** (3) Pottery making for beginners. Laboratory problems in clay construction with the development of simple techniques; hand building—piece method and coil method. Modeling in low relief on plaques. Work may be built to fire or to cast in plaster. Prerequisite: Art 101. Laboratory.

401. **Art History.** (3) The study of the art of the ancients with a view to better understanding to present day architecture, sculpture and the minor arts. Offered to upper-classmen who have ability in art or interest in the cultural aspects of art.

#### Second Session

202. **Art Education.** (3) Continued study of color and design as it is expressed in the public schools with problems and methods applicable in the teaching of elementary school children. Further development in drawing, lettering, book making, simple weaving, clay modeling, poster making, stenciling and block printing. Prerequisites: Art 101-201.

243. **Art Laboratory for Teachers and Supervisors.** (3) This course is designed to help teachers and supervisors in the practice of art integration in the school and the community. Prerequisite: Art 101.

311. **Stage Design.** (3) This course deals with the study and construction of miniature stage sets and experience with actual stage sets for actual plays produced on the college stage. Prerequisites: Art 101, 202 or 202.

### EDUCATION

#### First Session

231. **Materials and Methods for Teaching in the Elementary School.** (3) Teaching of the principles of mathematics in the elementary grades.

232. **Materials and Methods for Teaching in the Elementary School.** (3) The teaching of language arts.

233. **Materials and Methods for Teaching in the Elementary School.** (3) The teaching of Social Studies in the elementary Grades.

243. **Educational Psychology.** (3) Prerequisite Psychology 211-212. This course deals primarily with learning in the school situation. The course is designed to trace the physical, emotional, social and mental

growth of the individual from infancy through adolescence, emphasizing the relationship between growth and learning. The course further presents the general principles of learning and those psychological principles which may effectively be applied to the learning situation in the classroom.

253. **Child Psychology.** (3) Prerequisite: Psychology 211. The principle aim of this course is to teach the behavior and development of young children which involves a continuous re-organization of experiences, as the child functions as an integrated whole.

341. **Principles of Secondary Education.** (3) A course dealing with the principles and practices of the Elementary School.

312. **Measurements and Evaluation in the Elementary School.** (3) For prospective elementary and high school teachers who desire firsthand experience in the use, constructions, and benefits of diagnostic procedures. An understanding of and an appreciation for statistical concepts as they relate to general education. Prerequisite: Successful completion of one year of college work.

321. **Teaching of Mathematics in Secondary Schools.** (3)

342-3. **General Methods in Secondary Schools.** (3) This course is a prerequisite for student teaching. Topics covered are classroom management, unit and lesson planning, direction of the various learning activities, selection and use of instructional materials and evaluation of the teaching learning process.

362. **School and Community Relations.** (3) This course includes the following topics: the control of schools by boards of education, pressure groups, and parents; the study of education institutions other than the school; the attitude of the community toward teachers; responsibility of teachers for exerting leadership in the community and ways in which they can exert this leadership; adult education projects; and relation of social backgrounds and school progress. Materials in this course will consist of a standard reference in educational sociology, such as Cook's *Background of Education* and also pamphlet material from community agencies. It is recommended that student in the course actually participate in community projects.

363. **Extra-Curricular Activities and Guidance.** (3) Registration limited to thirty. Permission of instructor required. This course covers the principles and procedures involved in the supervision of assembly programs, student civic organizations, academic clubs, musical organizations, hobby clubs, athletics, etc. A special area is the study of the essentials of guidance programs which meet the educational, social, vocational and personal needs of high school pupils.

383. **Pupil Guidance.** (3) This course is designed for principals, supervisors, and teachers concerned with the guidance program of the school. The course offers training in giving guidance to the individual

student and in setting up a guidance program of the school based on measuring intelligence, diagnosing subject disabilities, case study of pupils with problems, and the discovery of interests and aptitudes. Training is offered in conducting the personal interview with both the pupil and the parent.

441. **Educational Sociology.** (3) This course deals with an application of education in the solution of Sociological problems.

450. **Senior Project.** (3).

211. **General Psychology.** (3) This course is required in the elementary school curriculum and is a prerequisite for most courses in psychology. This course, is in addition to cover general psychology.

381. **Adolescent Psychology.** (3) In this course prospective teachers, parents, social workers and supervisors and administrators in elementary and secondary schools study the problem of adolescence, covering the years from 14 to 19, in relation to the home, school and community.

#### Second Session

332. **History of Education in the United States.** (3) A general course which traces the development of the school system of the United States.

341. **Principles and Organization of Secondary Education.** (3) This is a required course for all teachers of the high school. It includes the principles underlying the evolution of the present American high school types of organization, the high school pupil, curricular offerings and present-day problems with special reference to the Negro High Schools of Tennessee.

313. **Measurement and Evaluation in the Secondary Schools.** (3) A study of the construction, administration, scoring and interpretation of standardized tests, scales, and inventories used in the measurement and evaluation of pupil progress in the high school. Prerequisite: Education 243.

385. **The School Curriculum.** (3) This course includes the history of the school curriculum in both the elementary and high school; overview of the subjects now included in the curriculum and the forces that caused them; the construction of units and other curriculum materials. The materials for this course should include a basic textbook or reference in curriculum issues of the Curriculum Journal, and publication of states and cities dealing with special problems of the Negro schools.

323. **Mental Hygiene.** (3) Prerequisite: Psychology 211-212. This is the introductory course in mental hygiene. The course is designed for teachers and prospective teachers. It covers the principles of mental hygiene and attempts to train the prospective teacher to practical mental hygiene in the classroom; thus protecting her own mental health and the mental health of her pupils.

453. **Social Psychology.** (3) This course deals with the varied reactions of the individual to the group of the individual. A study is made of the modifications of motives, emotions attitudes and prejudices by group culture and influence. Prerequisites: Education 211, 212 and 243.

211. **Psychology.** (3) General Psychology.

#### GRADUATE COURSES

##### First Session

500. **Seminar in Testing.** Limited to Supervisors, Principals and Teachers in-service who wish to plan a testing program. See Testing Bureau in this bulletin.

502. **School Administration.** (3) A course designed for high school and elementary principals who desire to do advanced work in school administration.

511-12. **Research and Thesis Writing in Education.** (3) This course is required of all students who are working for the master's degree in education.

531. **Negro Education in the United States.** (3) This course surveys the evolution and present status of the education of Negroes in the United States.

525. **Problems in Secondary School Instruction.** (3) This course considers secondary school problems in the fields of curriculum materials and patterns, general technique and evaluation of the outcome of instruction.

532. **Advanced Educational Psychology.** (3).

533. **The High School Principal.** (3) This course is designed primarily for high school principals or those who are planning to become principals. Such topics as evolution to the principalship, nature and organization of the principal's work, program making, selection of the high school faculty, administration of a school and supervision of instruction will be covered. Open only to graduate students and qualified graduating seniors.

541. **Counseling the High School Pupil.** Three hours. Consideration of high school pupils at various age levels; study of personal, social, voeling techniques; modification of school program to meet needs of high school pupils; record keeping; interpretation of data gathered about pupils; role of homeroom teacher, principal, parents; relation to total guidance program in school.

551. **The Principal at Work.** Three hours. A systematic study and analysis of the work of a principal in a given school analysis of the possibilities for development of the school program and formulation of specific plans to foster such growth.



553. **The Supervisor at Work.** Three hours. Evaluation of program of work; program planning; report making; relation to superintendent; relation to community agencies; relation to school principals; professional activities for teachers; publicity.

Supervisors will have an opportunity to plan their work for the next school year.

591. **Problems and Projects in Education.** (3) This course surveys the evolution and present status of the education of Negroes in the United States.

#### Second Session

501. **School Administration.** (3) A course designed for high school and elementary principals who desire to do advanced work in school administration.

521. **Educational Statistics.** (3) This course studies the application of statistical techniques to educational problems.

503. **School Supervision.** (3) An introductory course for school supervisors with special reference to the work of Jeanes Supervisors.

522. **History of Education.** (3) This course offers a critical examination of the social and educational experiences which have greatest significance in explaining present educational policies, practices and institutions.

## HEALTH AND PHYSICAL EDUCATION

The summer-session program of the Department of Health and Physical Education for 1948 has been redefined. In keeping with recent changes in state educational policies which affect directly the curriculum, content, and personnel of the public school systems of the state, the department of health and physical education is supplementing its course offerings for the purpose of: (1) Meeting requirements of the several departments of the college, (2) satisfying the needs and demands of the in-service teacher, and (3) by providing a course sequence especially designed for those special teachers who because of their designation are now teaching health and physical education but who are not yet certified in these subjects. It is possible for special teachers who pursue the course sequence as outlined by the department to qualify in two summers for certification in health and Physical education.

### HEALTH

#### First Session

211. **Health Examination.** (3) This course is designed to give a general knowledge of the procedures set up to determine the health status of the child. It relates ways and means of enlisting pupil, teachers, parent cooperation and health protection and maintenance, with special emphasis of the teacher's function in the school-health examination program.

212. **School Hygiene.** (3) The course is concerned with giving general information of the total environment in which the child lives while at school. Stress is placed on classroom conditions that are conducive to healthful living, and the part the teacher, pupil, and janitor play in maintaining a healthful school situation.

213. **Health Instruction.** Emphasis is placed on the acquisition of a knowledge of child nature, sources of health information. Suggests techniques and procedures for discovering health needs, with special stress on practice in methods of planning, preparing, and presenting instructional units in health.

301. **Community Hygiene.** (3) The course is designed to acquaint students and teachers in the practices and procedures of controlling the environment, especially those methods that are now in use in the control of communicable diseases, food, water, waste materials, and other problems of sanitation arising out of existing conditions in urban and rural areas.

302. **First Aid and Safety.** (3) The course is designed for students, teachers, and athletic coaches who most apt are to be faced with such common emergencies that may arise in the home, the school, and on the athletic field, gymnasium, or playground. Special emphasis is placed on safety procedures to prevent common accidents that arise in these areas. Major consideration in the course is given to demonstration and prac-

tice of general first aid care of emergencies; with specific stress placed on bandaging, the controlling of bleeding, artificial respiration, and the treatment of strains, bruises, sprains, wounds, and shock. Red Cross certification is given.

490. **Safety Education.** (3) June 23-July 3. Red Cross National Aquatic School. The school offers instructor training in water safety, first aid, and accident prevention, with Red Cross specialists as instructors. Its concentrated all-around aquatic training, available only in Red Cross aquatic schools, is of especial interest to physical education majors and minors and prospective waterfront directors and summer camp counselors. The entire curricula is designed primarily to train instructors for: Red Cross chapters, schools and colleges, youth and adult organizations, and organized summer camps. A regular class schedule is maintained throughout each day devoted to learning, analyzing, and teaching the skills and the knowledge which apply to first aid water safety, and accident prevention. Subjects offered in Water Safety are swimming, diving, canoeing, boating, life saving and first aid. In First Aid the courses are junior, standard, advanced and instructor first aid. The Accident Prevention study includes home, home and farm, and junior accident prevention. The program combines study, discussion, demonstrations, and practice. Early evening sessions are devoted to seminars in which the program uses and program outlines for these activities are considered and discussed.

#### PHYSICAL EDUCATION

522. **Intermediate Swimming.** (2) Prerequisite. Students who are able to swim at least one stroke a distance of sixty feet. Instruction in the fundamental arm and leg stroke; techniques, plain diving, and elementary forms of rescue leading to Red Cross certification.

323. **Life Saving and Water Safety.** (3) A professional course for training teachers. Prerequisite: Ability to swim 440 yards. Practice in all coordinated styles of swimming. Instruction in life saving and water safety skills and techniques leading to American Red Cross Senior Life Saving and Water Safety Instructor Certificates.

361. **Adult Sports.** (2) Instruction in practice of fundamental rules and techniques of adult sports adaptable to Junior and Senior High School facilities. The course shall include procedures for adapting class organization to different available facilities and for making inexpensive equipment. Opportunities for participation in the various sports taught is allowed. Required of all majors and minors.

332. **Conditioning Exercises.** (2) Intensive practice and practice teaching of: Tennessee Ten different grade levels; additional formal calisthenic conditioning and hand apparatus exercises. Explanation of physiology emphasis of each exercise. Formal organization of class pro-

cedures. Estimates of physical activity leads for various groups. Required of all majors and minors, and of those seeking state certification.

401. **Play and Games for Elementary Schools.** (3) Acquaints students and teachers with a working knowledge of the theory and practice of rhythmic activities, mimetic activities, hunting games, story plays, games, and sports, athletic games and other activities as they are related to the elementary school. The course explains the best methods of teaching these activities at the various age-grade levels. It also provides a careful study of all the factors that make up a well rounded physical education program in the elementary schools, including objectives of the program, organization of the program, and activities of the program. Included also is a discussion of play areas, equipment, and supplies.

413. **Program Planning in Health and Physical Education.** (3) Acquaints students with the State and Recommended Programs of Health and Physical Education. Stresses ways and means of incorporating health and physical education activities into the total school program. Emphasis is placed on plans and procedures of adapting programs to local conditions.

422. **Athletic Coaching and Officiating.** (3) A survey of the coaching fields of football, basketball, and track and field. Stresses the various methods used in teaching fundamentals in these sports with analysis of offensive and defensive techniques.

500. **Techniques of Football and Basketball.** (3) June 11 to 28. A three weeks course for Coaches involving the intensive study of various techniques in teaching boys the fundamentals of football and basketball. Ample opportunity is allowed for the practical application of techniques and fundamentals to learning situations. Emphasis is placed on acquainting the coaches with the essentials of winning football and basketball including the importance of conditioning and training, care of equipment, duties of trainers and managers, correct placement of players, fitting the offense and defense to the abilities and capabilities of the players, and player-coach relationship.

501s. **Festivals and Demonstration.** (3) The course is open to men and women. It is organized to acquaint students with methods, materials, and techniques of working up and presenting pageants, festivals, exhibitions, carnivals, circuses, athletic events, special celebrations, and events of similar nature. Includes a study and discussion of activities calling for large numbers of participants, and methods of combining a number of areas such as, dancing, dramatics, crafts, and athletics.

## Second Session

(Course offerings same as for the first session)

## Sequence for Certification

Training for certification in health and physical education requires twenty-one (21) quarter hours which may be acquired by pursuing the sequence as outlined here.

Physical Education 322, Conditioning Exercises.....	2
Physical Education 342-401, Play and Games for Elementary Schools	3
Physical Education 422, Athletic Coaching and Officiating.....	3
Physical Educational 361, Adult Sports.....	2
Physical Education 413, Program Planning in Health and Phys. Edu.	3
Health 211, Health Examination.....	3
Health 213, Health Instruction.....	3
Health 302, First Aid and Safety.....	3

## Graduate Work in Health and Physical Education

## First Session

## HEALTH

501. **Methods and Materials in Health Education.** (3) A course concerned with the progressive methods and use of teaching aids and materials in health education on the junior and senior high school levels. Especially designed to acquaint the prospective teacher with the fundamentals necessary for discovering health needs of the pupils. Emphasis is placed on the methods and techniques for incorporating health activities into the school curriculum.

511. **Methods of Instruction and Supervision in Physical Education.** Practical suggestions are included for teaching play activities, fundamental skills, and athletic games. Special attention is given to in-service training of personnel; program evaluation and improvement; adequacy of facilities and equipment; association with principal and administrators; and community relationships.

Physical Education. 521. **Current Problems in Physical Education.**

## Second Session

A course designed to help teachers, supervisors, and administrators to solve problems of physical education facing America today in light of social and economic reconstruction. A study of philosophy and policies in the classification of students, the staff, teaching lead, marking (grading), trial Subjects. Arranging course material in trade subjects, following time schedule, gradation of activities, and finance.

## MUSIC

## First Term

101. **History and Appreciation.** (3).
121. **Glee Club.** (3) Open to all who sing. Rehearsals twice weekly throughout the year.
161. **College Choir.** (1-3) Prerequisites: Must be able to play instrument. Rehearsals twice weekly throughout the year.
201. **Theory.** (3) The work includes the principles of notation, terminology, scale building, intervals, embellishments, chords, cadences, rhythm, ear-training, sight-singing, chromatics and analysis of simple forms.
241. **Advanced History and Appreciation.** (3) A continuation of Music 101.
261. **Concert Singers.** (1-3) All Quarters. Good knowledge of piano, sight singing, ear training and ability to sing an entire recital of classics required. This is the concert group and represents the school throughout the country. All members are required to take private lessons. Rehearsals five times weekly throughout the year. All students are required to attend lessons regularly and on time. No student may make a public appearance without consent of the department of music.
301. **Music for the Elementary Schools.** (3) The aim of this course is to acquaint the student with materials, methods, problems, procedure, and development of music in the elementary grades. The development of independent sight-singing, rhythmic problems, grade school orchestra, instrumental class work as discussed and suitable materials are considered. A particularly good course for teachers in small rural schools.
303. **Choral Conducting.** (3) Use of the baton, directing from both quartet and full score, interpretation; seating for various types of choral works from Bach to Wagner, including the sonata and symphony.

## Second Term

122. **Glee Club.** (3) Open to all who sing. Rehearsals twice weekly throughout the year.
162. (1-3) Prerequisite: Must be able to play instrument. Rehearsals twice weekly throughout the year.
202. **Harmony.** (3) The study of primary and secondary chords in four part writing, harmonizing of melodies, requiring use of triads and seventh chords in both root and inverted position, chromatic passing tones, sixth chords, altered chords, modulation, enharmonic changes, etc.
223. **Introduction to the Study of Public School Music.** (3) Materials and methods involved in teaching of music to children.

242. **Advanced History and Appreciation.** (3) A continuation of Music 241.

262. **Concert Singers** (1-3) All Quarters. Good knowledge of piano, sight singing, ear training and ability to sing an entire recital of classics. This is the concert group and represents the school throughout the country. All members are required to take private lessons. Rehearsals five times weekly throughout the year. All students are required to attend lessons regular and on time. No student may make a public appearance without consent of the department of music.

302. **Music for Secondary Schools.** (3) A study of the methods of organizing classes and presenting school music in Junior and High Schools. A study is made of the changing voice, voice testing, glee clubs, suitable materials, musical contests, operettas, etc.

341. **Counterpoint.** (3) Special instruction in the fundamentals underlying polyphonic writing. Two, three and four-part writing in single counter point, double counter point. Study of the sonata, symphony, etc.

402. **Composition.** (3) Composition of pieces in small forms.

#### APPLIED MUSIC

Private piano, organ, and voice lessons will be arranged for those who desire special work along these lines. Both beginners and advanced students are accepted.

#### DEPARTMENT OF LIBRARY SERVICE

The Department of Library Service is in the Division of Education. The 18 quarter hours required for teacher-librarians or a minor in the department meet the standards set by the Tennessee State Department of Education and the Southern Association of Colleges and Secondary Schools.

The Library Service courses are planned for: (1) students who wish to prepare for positions as teacher-librarians; (2) teachers or prospective teachers seeking information on library materials related to their teaching needs; (3) students enrolled in any division of the college who desire general information and guidance in using library resources; (4) Principals and Jeanes Supervisors confronted with problems of developing library service in their schools or counties. The following courses are recommended for these groups:

1. Teacher-librarians: 351, 361, 362, 363, 451, 452, and 473.
2. Teachers or prospective teachers: 361, 362, and 363.
3. Students in general: 211.
4. Principals and Jeanes Supervisors: 501.

The 300 and 400 courses are open to students of junior or senior standing in the college. The 500 course is planned primarily for Principals,

Jeanes Supervisors or persons holding administrative positions in the school and is offered only in the summer quarter.

Complete departmental course offerings are given during the two summer terms. Courses offered in the first term may be repeated in the second term upon request and official approval which is granted when the requested course is needed to complete a minor in the department or to meet other requirements for graduation.

#### First Term

351. **Library as a Service Agency.** (3) A study of the school library, its development and general problems involved in providing adequate services to meet the needs of the educational program of the school and community.

361. **School Library as an Information Laboratory.** (3) This course is a study of basic tools used in administering reference services in the school library. It also includes a discussion of formal and informal methods of teaching the use of library resources as related to the instructional program of the school.

362. **Library Resources for Junior and Senior High Schools.** (3) A study of problems and principles involved in selecting and developing the book and related materials collections for use of students in grades seven through twelve. Special emphasis is placed on the instructional program of the school, reading interests of young people, and reading guidance as basis for developing library resources.

363. **Library Resources for Elementary Schools.** (3) A study of problems and principles of selecting books and related materials for use of students in elementary grades with emphasis placed on the instructional program of the school, reading interests of children, and reading guidance program as bases for developing library resources. Special effort is made to acquaint students with materials as well as with methods of stimulating the use of these materials.

451. **Organization of Library Materials.** (3) This course gives instruction and practice in simplified procedures for acquisition, mechanical preparation and organization of books and related materials such as pamphlets, pictures, periodicals and audio-visual aids. It also includes instruction in mending, binding as well as compiling shelf list and other records of materials.

452. **School Library Administration.** (3) A study of problems and simplified procedures involved in administering the school library. Special attention is given to planning and organizing the work of the librarian and to a study of standards and evaluation, staff, housing and equipment, finance, loan system, statistical records and reports, use of the library and services for students and teachers.

473. **Practice Work.** (3) This course provides opportunity for prospective teacher-librarians to receive some experience in types of library work that may be adapted to their school needs. A minimum of eight clock hours per week must be spent in actual library work or observation. A student may register for this course upon completion of the following Library Service courses: 351, 361, 362, 451, 452.

501. **School Library Problems.** (3) A study of problems confronted by principals, Jeanes Supervisors and other administrators concerned with the development of library service in schools.

#### Second Term

211. **Use of Library Resources.** (3) A general course designed to aid students in a systematic approach to locating educational information. Special attention is given to problems confronted by students in their use of library resources particularly as these problems relate to preparation of class reports, term papers or projects assigned in classes other than Library Service 211. An elective open to students enrolled in any Division of the College.

473. **Practice Work.** (3) See description under first term.

Courses offered during first term may be repeated in the second term upon request and official approval.

## DIVISION OF ENGINEERING AND INDUSTRIAL EDUCATION

For the Summer Quarter the Division of Engineering and Industrial Education will offer courses as follows:

1. Leading to a Bachelor of Science Degree in Industrial Education
2. Leading to a Master of Science Degree in Industrial Education.
3. Courses designed to meet some of the needs of two year Engineering majors.
4. Courses designed to aid in the up-grading of in-service teacher of vocational trades.
5. Courses designed to prepare coordinators in Diversified Occupation
6. Courses in the several trade shops designed to develop vocational trade skills.

#### COURSE OFFERINGS

321a, 322. **Industrial Education.** Part-time Programs in Diversified Occupations. Principles of organizing program, analyzing needs, preparing schedule of processes, selecting materials for related-subjects teaching, and carrying on supervised study and coordination. 321a-1½ hours credit; 322-3 hours credit.

411. **Industrial Education.** Foremanship Training by the Conference Method. The use of the conference as an instructional device; special methods, techniques, and procedures to be used in foreman training; duties and responsibilities of the typical industrial foreman. How to follow up foreman conferences by means of foremen's clubs, plant educational programs. 3 hours credit.

421. **Industrial Education.** Methods of Teaching Shop and Related Subjects. Special methods of teaching shop subjects, lesson planning and special techniques of the demonstration. Plans for related subjects instruction and methods of testing. 3 hours credit.

431. **Industrial Education.** Curriculum Building in Trade and Industrial Subjects. Arranging course material in trade subjects, following up results of job analyses, preparing checking sheets and individual job sheets in both trade and related subjects. Prerequisite or parallel: 412. 3 hours credit.

111. **Mechanical Drawing.** Drawing Practice. Instruction in the use of instruments, embracing geometrical constructions, orthographic projection, special and auxiliary views, and sections. Freehand lettering. Freshmen. Two three-hour or three two-hour laboratory periods. Required of all Engineering student. 3 hours credit.

211. **Mechanical Drawing.** Descriptive Geometry. An elementary

study of the point, line, and plane, with theoretical and practical problems. Sophomore. Required of all Engineering students. 3 hours credit.

201. **Architectural Drawing.** A series of problems in architectural design, composition, planning, studies in detail, rendering. 3 hours credit.

Also **Shop Practice Courses** in Aero Repairs, Aviation Model Building, and Auto Mechanics, Woodwork, Masonry, Plumbing, Machine Shop Practice, Welding, Radio and Household Appliance Repairing, Sheet Metal, Drafting, Electricity, and Shoe Repairing. The number of courses will be arranged for on demand. All shop courses are two hours per day, three times per week. 3 hours credit. Specialized shop courses are 6 hours per day, 5 days per week, 30 clock hours credit per week.

**Open to Graduate Students Only:**

511-3. **Administration and Supervision of Industrial Education.** Fundamental principles of vocational education and their application, objectives, methods, and policies. Special emphasis on the relationship between public vocational education and general education; the methods of securing cooperation of trade and labor organizations; modern apprentice programs and the administration and supervision of various types of schools and classes under the Federal Vocational Education Act.

511a. **Duties and Responsibilities of Local Supervisors.** 1½ hours credit.

513a. **Supervision of all day trade and related subjects.** 1½ hours credit.

513b. **Supervision of Part-time and Evening Trade Extension Classes.** 1½ hours credit.

Note: All courses for in-service teachers are being concentrated for the first three weeks of the Summer Quarter. Courses for students desiring to remain for the entire quarter will be arranged for upon request and the number of different offerings will depend upon registration.

## DIVISION OF HOME ECONOMICS

### Foods and Nutrition

#### First Term

Meal Planning and Table Service	223	Nutrition	311
		School Lunch	431
		Advanced Nutrition	521

#### Second Term

Food Buying and Preparation	111	Food Preservation	221
		Nutrition in Disease	451
		Community Nutrition	531

### Textiles and Clothing

#### First Term

Elementary Clothing Construction	112	Problems in Clothing Construction	411
Intermediate Clothing Construction 211 (formerly 122)		Methods of Teaching Clothing Selection	503

#### Second Term

Clothing for Children	212	Textiles	323
Clothing Renovation	213	Draping	521

### Home Management

#### First Term

Household Mechanics and Equipment	320	Home Management Residence	423
-----------------------------------	-----	---------------------------	-----

#### Second Term

Economic Problems of the Household	422	Home Management Residence	423
------------------------------------	-----	---------------------------	-----

### Child Development

#### First Term

Child Psychology	253	Child Development	323
------------------	-----	-------------------	-----

#### Second Term

The Young Child and His Family	351	Family Relationships	463
--------------------------------	-----	----------------------	-----

### Home Economics Education

#### First Term

Methods of Teaching Home Economics 311 (formerly 411)		Evaluation in Home Economics	534
Home Experiences and Community Programs	531		

## Second Term

Problems of Curriculum and Teaching	431	Adult Education Methods in Home Economics	442
-------------------------------------	-----	---	-----

## FOODS AND NUTRITION

111. **Food Buying and Preparation.** (3) A course in the study of foods, including standards for selection, purchasing, preparing and serving foods of nutritive value and analyses of simple principles involved in food cookery. Our hour and two laboratory periods. Fee \$5.00.

221. **Food Preservation.** (3) A study is made in the planning and preserving of an adequate food supply for a year for the urban and farm family. Laboratory work is done in various methods of food preservation. One hour and two laboratory periods.

223. **Meal Planning and Table Service.** (3) This course includes meal preparation and table service for various occasions, market plans, cost of meals, the nutritive value of food and aesthetic aspect of meal planning. Open to majors and other Divisions who can qualify in consultation with instruction.

311. **Nutrition.** (3) A course in the fundamental principles of human nutrition as related to the construction of practical dietaries and in the application of these principles to the feeding of individuals, families and groups. Prerequisites: Nutrition 211, Chemistry 321, Human Physiology 342-3. Two hours and one period. Fee \$5.00.

431. **School Lunch.** (3) This course is planned for those who wish to be prepared to manage school lunchrooms in connection with teaching. It consists of a survey of problems of lunchroom management with observations in school lunchrooms.

451. **Nutrition in Disease.** (3) A study of the modification of the normal diet in the treatment of disorders of nutrition. Diets in the treatments of various diseases are planned and prepared in the laboratory. Prerequisites: Nutrition 211; Chemistry 321. Fee \$5.00. Nutrition 211.

521. **Advanced Nutrition.** (3) A study of the fundamental principles of nutrition and the application of these principles to the feeding of individuals, families and groups. Prerequisite: Chemistry 321 and Nutrition 311.

531. **Community Nutrition.** A study of methods of improving nutritional practices in a community. Supervised work in surrounding communities. Prerequisites: 321 Nutrition.

## TEXTILES AND CLOTHING

\*112. **Elementary Clothing Construction.** (3) Fundamentals of construction applied to simple wash garments. Study of commercial patterns, principles of fitting, use and care of sewing equipment. Three periods.

211. **Intermediate Clothing Construction.** (3) Fundamental principles applied to the construction and care of wash materials and synthetics. Use of commercial patterns. Three periods.

212. **Clothing for Children.** (3) A study of problems in the selection and construction of garments for children at different age levels. Prerequisites: T. & C. 102, 112, 211. Three periods. Fee \$1.00.

213. **Clothing Renovation.** (3) Redesigning, reconstruction and reclaiming outmoded and discarded clothing and accessories.

323. **Textiles.** (3) A study of textile fibers and fabrics used for clothing and house furnishings. Simple methods of testing fibers. Prerequisites: Chemistry 101, 102, 103. Three periods. Fee \$1.00.

411. **Problems in Clothing Construction.** (3) Special problems in the details of clothing construction. The making of illustrative material. Conservation, renovation, and care of clothing. Seniors only. Three periods.

503. **Methods of Teaching Clothing Selection.** (3) A course to assist teachers in the organization of units for high school or college classes on problems in the selection of family clothing and household textiles. Three periods. Three hours credit.

521. **Draping.** Designing and draping dresses with emphasis upon creative designs and the handling of different fabrics. Designs draped in muslin and completed in suitable material.

## Home Management

320. **Household Mechanics and Equipment.** (3) This course is designed to acquaint the student with the problems in the care of and practical work in finishing and refinishing furniture, floors, and woodwork; the problems in selection, use and care of household equipment. Three hours. Fee \$2.00.

422. **Economic Problems of the Household.** (3) This is a course in the study of financial and other economic problems of the family. Three hours.

423. **Home Management Residence.** (3) Students are required to spend a period of six weeks in the home management house. Actual experience in group relationship, managing and operating a home. Prerequisite: Completion of all Freshman, Sophomore and Junior requirements.

### Child Development

253. **Child Psychology.** (3) A discussion of young children and factors which operate in their guidance and development. Social and emotional development, language and habit formation are emphasized. Prerequisite: Psychology 211.

323. **Child Development.** (3) A study of the child from the psychological physiological and Sociological points of view, with emphasis on care, guidance, development, training, environment and habit formation.

351. **The Young Child and His Family.** (3) In this course emphasis is placed upon the individual development of various family members. Consideration is made of family relations basic to an intelligent understanding of attitudes and behavior of children and young people. Observation of training procedures in the nursery school. Two hours and one laboratory period.

463. **Family Relationships.** (3) Problems in Family Life. A study of modern life giving special emphasis to the activities of the home as they relate to the development of the family and its individual members. Prerequisites: 323 Child Development and Economic Problems of the Household 422 or Sociology 322.

### Home Economics Education

311. **Methods of Teaching Home Economics.** (3) A study of instructional methods and principles of teaching philosophies. Curricula development on basis of needs and relation of Home Economics to home, school and community. Prerequisite for Home Economics Education 433. Three hours.

431. **Problems of Curriculum and Teaching.** (3) A study of practical methods of organizing the curriculum and adapting its content to pupil and community needs. Consideration of the part the curriculum has in vitalizing the community and of the underlying principles involved. Three hours.

442. **Adult Education Methods in Home Economics.** (3) This course deals with a survey of the organization, administration and recent development in adult education with special emphasis upon the field of homemaking education. A study of teaching techniques and materials for adult classes in homemaking and an analysis of the programs in American communities through public school Smith-Lever extension, Smith-Hughes vocational Education, churches and clubs. Three hours.

531. **Home Experience and Community Programs.** (3) Theory of home projects, guidance and evaluation in home economics summer programs.

534. **Evaluation in Home Economics.** (3) The purpose of evaluation in the development of home economic programs. Various devices used in evaluation or progress in high school; grading; tests and reports.

## DIVISION OF POLITICAL AND SOCIAL SCIENCE

### A—Introductory

The Division of Political and Social Science is composed of the Departments of Political Science, Social Administration, and Sociology.

The general design of the Division of Political and Social Science embraces a fourfold objective: (1) to provide a broad and basic background for understanding the problems of citizenship and human relations; (2) to train students for employment in civil service, teaching, social work and other community organizations; (3) to prepare students for advanced specialized study; and (4) to train students to conduct research in the fundamental problems of social science.

### B—Requirements for Admission

The general requirements for admission to all classes in the Division of Political and Social Science are identical with the admission requirements of the general college.

### C—The Bachelor of Arts

Major and Minor: Students in the Division of Political and Social Science are required to take a minimum of one major and one minor. The minor field may be taken within the Division or in related fields of other Divisions. Political science, sociology, social administration, psychology, agriculture, history, economics, education, business administration, philosophy, and geography are acceptable as minor fields.

A major in the Division of Political and Social Science consists of a minimum of 45 quarter hours within the field of specialization; a minimum of 24 hours in a related area is required for the minor field.

Required Courses: Students majoring in any department of the Division are required to complete 18 hours English; 18 hours French, German or Spanish; 21 hours History; 12 hours Biology, Chemistry, or Physics; 12 hours Political Science; 9 hours Psychology; 9 hours Economics; 6 hours Mathematics; and 6 hours Physical Education.

These courses should be taken, as nearly as possible, in accordance with the curriculum pattern for each department.

Ample provision is allowed the student who also wishes the necessary hours in education for the teacher's certificate in Tennessee or in other states.

### D—Standards of Scholarship

A student is required to maintain an annual grade-point average of 2.5 in both major and minor fields. The student who fails to maintain



such an average is advised to repeat the courses in which the low grades were earned, or to discontinue studies in that particular department.

In order to qualify for graduation the student must also submit a senior project and pass a comprehensive examination, both in accordance with the general requirements of the College.

#### E—Laicos S. Ronoh

Students majoring in the Division of Political and Social Science who have a minimum total of 100 quarter hours with a cumulative grade-point average of 3.0 may apply for membership in Laicos S. Ronoh honorary society.

Laicos S. Ronoh is a society for scholars in the Division of Political and Social Science. Its program is given almost completely to advanced research and study. The experience of fellowship which its members enjoy with each other and with the Divisional faculty is intended to prepare them especially well for graduate study in any of the world's leading universities.

#### F—Graduate Study

Graduate study for the Master of Arts degree is offered in Political Science and Sociology. Social Administration graduate courses sufficient for a minor are offered for students pursuing the master of arts degree in a related field.

Regulations governing graduate study in the Division of Political Science are identical with those of the College.

### DESCRIPTION OF COURSES

#### Political Science

221. **American Government: National.** (3) An introductory course dealing with the foundation, organization and principles of the national government. Emphasis upon the rights, duties and obligations of citizenship. Both terms. Staff.

313. **Tennessee State Government.** (3) The study of Tennessee government from the functional viewpoint; political activities, taxation, education, social welfare and economic services of the government. Prerequisite: Political Science 221-2-3. Both terms. Wilson.

341. **International Relations.** (3) A study of the present-day relations among the states of the world and the principal factors which underlie these relations. Prerequisites: Political Science 321-2-3. Both terms. Bryant.

361. **American Political Parties and Politics.** (3) A study of the

formation of political parties; nominations and elections; methods of representation and voting; and the importance of parties in American government. Both terms. Bryant.

#### Social Administration

331. **Leisure and Recreation.** (3) The sources of leisure in early and modern society. Historical and social functions of play. Recreational problems of communities. First term. Roy.

341. **Survey of the Field of Social Work.** (3) The course is designed for students who are considering pre-professional and professional courses in social work and are entering an allied profession such as teaching, law, medicine, or the ministry. A survey of contemporary social work by functional groupings of services such as social casework, group work and community organizations. The emphasis is on objectives, processes, and personnel requirements in each functional group. Required for Social Work. First term. Lee.

412. **Criminology.** (3) The course will include the problem of crime and criminals; the making of the criminal; the theories of crime and punishment; the machinery employed in dealing with the criminals; penal and correctional institutions and programs of prevention. Case studies and visits to institutions serves as aids in enriching understanding. Second term. Lee.

422. **The Interview.** The course is designed to contribute to the understanding of the individual with focus on the interview, its meaning and use in personnel and welfare work. Second term. Lee.

451. **Juvenile Delinquency.** (3) The social nature of delinquency; factors associated with the causation, prediction, and control of crime. First term. Lee.

#### Sociology

211-2-3. **Introduction to Sociology.** (9) The relationship of people to their physical and cultural surroundings and to each other. A systematic conceptual frame-work is developed that will permit the student to view the social world and its major problems in terms other than common sense. Prerequisite for all other Sociology courses. Both terms. Staff.

301. **Labor Problems.** (3) An analysis of the major socio-economic problems of labor as a primary dimension in contemporary society. A structural-functional analysis of such interrelated issues as labor unions, wages, prices, and governmental control. First term. J. Holland.

323. **Problems of Courtship and Marriage.** (3) An analysis of such factors as love, money, sex, childbirth and child-care, divorce, personality, etc., as determinants in the success and failure of marriage. First term. Rose.

393. **The Sociology of Race Relations.** (3) An introduction to the sociology of race and culture contacts, with emphasis on American problems. First term. Rose.

412. **Criminology.** (3) The course will include the problem of crime and criminals; the making of the criminal; the theories of crime and punishment; the machinery employed in dealing with the criminals; penal and correctional institutions and programs of prevention. Sase studies and visits to institutions serves as aids in enrich understanding. Second term. Lee.

443. **Rural Sociology.** (3) The structure and dynamics of rural life; technology and social change in the rural community. Both terms. J. Holland.

450. **Senior Project.** (3) Both terms. Staff.

451. **Juvenile Delinquency.** (3) (Identical with Social Administration 451). First term. Lee.

501. **Theories in Social and Cultural Organization.** (3) An analysis of the various systematic theories of social and cultural organization—including those of Weber, Malinowski, Morgan, Spencer, Sumner, Durkheim, and Warner. Both terms. Parrish and Rose.

## DIVISION OF SCIENCE

### GENERAL INFORMATION

The Division of Science offers instruction in several fields leading to (a) careers in technical branches and science research; (b) careers in the teaching of science and mathematics; (c) preparation for the study of medicine, dentistry, nursing and clinical laboratory technology; (d) the fulfillment of the science requirements in certain allied fields, including agriculture, home economics, engineering, industrial arts and technical vocations; and (e) to meet the science knowledge and skill requirements in general education on the college level.

### MAJORS AND PRE-PROFESSIONAL CURRICULA

The Division offers four-year curricula leading to the Bachelor of Science degree with majors in biology, chemistry, mathematics, physics, and the natural sciences, respectively. Several preparatory curricula are also offered for the study of medicine, dentistry, nursing and clinical laboratory technology.

### FACILITIES FOR INSTRUCTION

Harned Hall (The Science Building) is a modern three-story structure that contains several newly furnished and well equipped laboratories, lecture auditoriums, class rooms, service rooms, staff offices, store rooms, rest rooms and lounges, for the Departments of Biology, Chemistry, Mathematics, and Physics.

The Department of Physics consists of a spacious general laboratory, lecture room, photographic dark room, central store room, and a staff office. The Department is well supplied with essential equipment for basic instruction in physics.

The Department of Mathematics has staff offices and a lecture room with accessibility to the other instructional facilities in Harned Hall.

The Department of Biology has laboratories respectively for general zoology, general botany, micro-technique, bacteriology, physiology and anatomy, and biological research. A lecture auditorium, two staff offices, and a central store room are also provided. The college greenhouse is conveniently accessible for growing plants in connection with class studies and research in botany.

Excellent facilities for field work in biology and nature study are provided in the lake area on the southwest part of the college campus. This area contains several large and small lakes and naturalistic pools stocked with representative aquatic vegetation and animals. A lake-side shelter, and a surrounding landscape design of scenic stone pathways, ledges, and various species and varieties of native and exotic trees, shrubs, and herbs, are utilized in field studies.

The Department of Chemistry has laboratories for general chemistry quantitative chemistry, organic chemistry, and chemical research. In addi-

tion to the laboratories, are two central store rooms, a balance room, a preparation room, a lecture auditorium, and three staff offices. All laboratories and service rooms are well equipped with specially designed new furnishings; and with apparatus and supplies well adapted for the present instructional program.

#### CURRICULAR OFFERINGS FOR THE SUMMER TERMS

1948

##### Biology

##### First Term

Zoology 101-3  
Bacteriology 241  
Zoology 331  
Zoology 342  
Zoology 232  
Zoology 511  
Zoology 521  
Botany 111  
Botany 211

##### Second Term

Zoology 102  
Botany 112  
Zoology 343  
Zoology 233  
Zoology 512  
Zoology 522

##### Chemistry

Chemistry 111-3  
Chemistry 311  
Chemistry 511  
Chemistry 540  
Chemistry 560

Chemistry 112  
Chemistry 312  
Chemistry 541  
Chemistry 543  
Chemistry 561

##### Mathematics

Mathematics 101  
Mathematics 151A-2-3  
Mathematics 171  
Mathematics 321  
Advanced Mathematics

Mathematics 101  
Mathematics 151B  
Mathematics 152  
Mathematics 172  
Mathematics 251  
Advanced Mathematics

##### Physics

Physics 211

Physics 213

##### General Science

Science 111

Science 112

#### DESCRIPTION OF COURSES

##### DEPARTMENT OF BIOLOGY

##### First Term

All laboratory courses require a fee of \$3.00.

101-2-3. **General Zoology.** Fundamentals of animal life, with emphasis upon structure, development, life history, and certain significant problems relating to animals and man. Open to all students. Recom-

mended for majors in Agriculture, and for students who plan to take courses in Human Physiology. Two hours daily. Four hours credit.

232. **Comparative Anatomy.** Beginning with the prochordates, the general group characteristics are studied. The fundamental portion of the course deals with systemic anatomy of vertebrate types and their homologies. Required of Premedics. Two hours daily. Four hours credit.

233. **Mammalian Anatomy.** Considerations of the gross and systemic anatomy of mammals, with complete dissection of the cat. Required of Premedics. Prerequisite: Zoology 232. Two hours daily. Four hours credit.

331. **Embryology.** Development of higher vertebrates, with special emphasis on organogenesis of the foetal pig. Prerequisites: Zoology 211-232. Two hours daily. Four hours credit.

342-3. **Human Physiology.** Biological fundamentals of development, reproduction, structure, and physiological activities in human biology. Required of Home Economics, and Physical and Health Education Majors. Prerequisites: Zoology 101, and a course in general chemistry. Two hours daily. Four hours credit.

241. **General Bacteriology.** Considerations of the bacteria, molds, yeasts, certain protozoa, and viruses; with some practice in culture methods, staining and identifications. Required in Home Economics and Agriculture. Prerequisite: One course in a biological science or chemistry. Two hours daily. Four hours credit.

111-2-3. **Fundamental of Botany.** A general course dealing with the nature, development, physiology, structure, and natural grouping of plants. Recommended for majors in Agronomy; and may fulfill the biology requirements in elementary and secondary education. Two hours daily. Four hours credit.

211. **Plant Physiology.** Physiology of seed plants, with special emphasis on respiration, transpiration, photosynthesis, digestion, absorption, and nutrition. Required in Agronomy. Prerequisites: Botany 111-2-3, and a course in general chemistry. Two hours daily. Four hours credit.

##### Second Term

102. **General Zoology.**

112. **Fundamentals of Botany.**

233. **Mammalian Anatomy.**

343. **Human Physiology.** Continuation of Zoology 342.

## DEPARTMENT OF CHEMISTRY

## First Term

111-2-3. **General Chemistry.** This course is a study of the fundamental laws and theories of chemistry. The important non-metals and metals and their compounds are presented. Two hours daily. Required of Majors in Chemistry, Biology, Engineering and of Pre-dental students. Four hours credit.

311. **Organic Chemistry.** Chemistry 111-2-3, prerequisite. A systematic study of the source, physical properties, and chemical behavior of aliphatic, aromatic, and heterocyclic compounds of carbon. Two hours daily. Open to Majors in Chemistry and Biology, and to Pre-medical and Pre-dental students. Four hours credit.

## Second Term

112. **General Chemistry.** Continuation of Chemistry 111.

312. **Organic Chemistry.** Continuation of Chemistry 311.

## DEPARTMENT OF MATHEMATICS

## First Term

101. **Mathematics.** Fundamentals of Elementary Mathematics. One hour daily. Three hours credit.

151. **Algebra.** Discussion of topics in simple and quadratic equations, and the general triangle. One hour daily. Three hours credit.

152. **Trigonometry.** Functions of the general angle identities, equations, and the general triangle. One hour daily. Three hours credit.

171. **Mathematics of Business.** Exponents, radicals, linear equations, ratio, proportion, percentage, progressions, binomial theorem, series, simple interest, discount, partial payments. Freshman. One hour daily. Three hours credit.

251-2-3. **Calculus.** Differential and integral calculus derivatives of algebraic, trigonometric, exponential and logarithmic functions with application to problems arising in engineering and the physical sciences. The indefinite and definite integral with applications. Differential equations. One hour daily. Three hours credit.

## Second Term

Math 101. **Mathematics.** Same as above.

Math 151B. **Algebra.** Continuation of 151A.

Math 152. **Trigonometry.** Same as above.

Math 153. **Analytic Geometry.** Proportions of the straight line, the circle, the conic sections in the plane. One hour daily. Three hours credit.

Math. 172. Continuation of Math. 171.

## DIVISION OF HISTORY AND GEOGRAPHY

## First Six Weeks

## HISTORY

## Description of Courses

Hist. 121. **The Growth of Civilization.** (3) A study of the contribution that all races and nations have made to our present civilization from the earliest time to the fall of Rome. Assigned readings, discussions, reports and quizzes will comprise the type of work in this course.

Hist. 122. **The Growth of Civilization.** (3) A study of the contribution that all races and nations have made to our present civilization from the fall of Rome to Industrial Revolution. Assigned readings, discussions, reports and quizzes will comprise the type of work in this course.

HIST. 201 **American History.** (3) European background of the beginnings and establishment of the United States to 1789.

Hist. 202 **American History.** (3) The beginning of our National State from 1789-1877. The development and significance of Jeffersonian Democracy; The War of 1812, and the growth of Nationalism; the Westward Movement; the controversy over the Negro and his place in a democracy; the Civil War and Reconstruction.

Hist. 332. **The Ancient Regime.** (3) A study of the impact of unrestrained powers and the work of Napoleon; the conditions of the French people before and after the revolution.

Hist. 371. **Economic & Industrial History of the U. S. 1603-1860.** (3) A study of the economic development of the U. S. from the colonial period to the present with particular emphasis on the influence of economic forces in the shaping of social and politics growth and change. Prerequisite History 201-2-3.

Hist. 413. **History of the South.** (3) A survey of the Political, Economic, Social and Religious History of the South and the relationship of these institutions to the pattern of American History.

Hist. 443. **Renaissance & Reformation.** (3) Special emphasis will be given the Protestant Reformation and the Catholic Counter Reformation.

Hist. 471 **The Teaching of History.** (3) The theory and materials for the teaching of History will be reviewed. Open to majors in the Division who plan to teach. Assigned readings, personal investigations, field work, and demonstrations in class.

Hist. 501. **Thesis Writing.** Required of all students majoring in History. Credit only upon completion and acceptance of thesis.

Hist. 511. **Introduction to Historical Research.** (3) The principles

and techniques of research as applied to the study of history. Illustrative problems from American History. Required of all candidates for a master's degree with a major in history. Open also to senior majors in history by consent of the instructor and Dean of the College.

Hist. 521. **Seminar in Regional History.** (3) Supervised study of individually assigned problems in Tennessee History or Negro History. Open to senior majors in history by consent of the instructor and the Dean of the Graduate School.

Hist. 531. **Recent American History.** (3) The study of contemporary problems in the U. S. with emphasis on the social, economic, and political phases of American Life.

Hist. 552. **History of the Far East.** (3) The study of the rise, growth and development of the Orient with special emphasis on China and Japan and the role each has played in international affairs, civilization and culture.

#### Second Six Weeks

### HISTORY

#### Description of Courses

Hist. 123. **The Growth of Civilization.** (3) A study of the contribution that all races and nations have made to our present civilization from the earliest time to the fall of Rome to our present civilization. Assigned readings, discussions, reports and quizzes will comprise the type of work in this course.

Hist. 203 **American History.** (3) The emergence of the industrial life and the influence of the machine on American civilization; the problem of rapidly changing environment; industrial consolidation; the rise of organized labor; rural trends and the Negro; the flight of the Negro to the city; American Imperialism; education and religion; the plight of a democracy in a collectivistic society; the second World War.

Hist. 332. **The Ancient Regime and French Revolution.** (3) A study of the impact of unrestrained powers and the work of Napoleon; the conditions of the French people before and after the revolution.

Hist. 372. **Economic and Industrial History of the U. S. 1865-Present.** (3) A study of the economic development of the U. S. from the colonial period to the present with particular emphasis on the influence of economic forces in the shaping of social and political growth and change.

Hist. 401 **Contemporary World History.** (3) This course deals with world problems that have developed since the First World War. Topics are selected that are of current interest and studied in the light of historical development.

Hist. 411. **Negro History.** (3) Tracing and discussing the contributions which the Negro has made to American Civilization.

Hist. 450. **Senior Projects.** (3) The supervision and guidance of individual students' projects required of all majors.

Hist. 452. **Latin American History.** (3) A general survey of the history of Mexico, Central and South America. (1) The colonial period, wars for independence and (2) recent political history with the economic resources and trade relations emphasized. (3) The development of the foreign relations as well as the Western Hemisphere Ideology of Solidarity and mutual aid.

Hist. 502. **Thesis Writing.** Required of all students majoring in History. Credit only upon completion and acceptance of thesis.

Hist. 513. **Seminar in American History.** (3) An intensive study of selected topics in American History. Open to senior majors in History by consent of the instructor and Dean of the College.

Hist. 522. **Seminar in Regional History.** (3) Supervised study of individually assigned problems in Tennessee History or Negro History. Open to senior majors in history by consent of the instructor and the Dean of the Graduate School.

Hist. 531. **Recent American History.** (3) The study of contemporary problems in the U. S. with emphasis on the social, economic, and political phase of American life.

#### First Six Weeks

### GEOGRAPHY

#### Description of Courses

Geo. 171. **Elements of Geography.** (3) A study of the fundamentals of geography as a foundation to the understanding of social problems. An interpretive survey of regional patterns of settlement interpretive of lands and other basic resources.

Geo. 173. **Elements of Geography.** (3) A study of the fundamentals of geography as a foundation to the understanding of social problems. And interpretive survey of regional patterns of settlement interpretive of lands and other basic resources

Geog. 271. **Economic Geography.** (3) A survey of world distribution of the products of industry. A study of commodities, of international trade, and of trade routes.

Geog. 371. **United States and Canada.** (3) Recognition, analysis and interpretation of its basic physiographic features, resources and human adjustments within its several unit areas

Geog. 381. **Europe.** (3) Regions and resources of Europe. Distinctive role of each country. Geographic basis of international conflict.

Geog. 405. **World Resources.** (3) A study of the natural conditions and resources in the major areas of international concern. Prerequisites: Geography 171-2-3 and senior standing.

Work Shop: June 20-July 2—Staff and Consultants.

Work Shop Clinic: June 20 - July 2.

#### Second Six Weeks

### GEOGRAPHY

#### Description of Courses

Geog. 172. **Elements of Geography.** (3) A study of the fundamentals of geography as a foundation to the understanding of social problems. An interpretive survey of regional patterns of settlement interpretive of lands and other basic resources.

Geog. 272. **Economic Geography.** (3) survey of world distribution of the products of industry. A study of commodities, of international trade, and of trade routes.

Geog. 273. **Economic Geography.** (3) A survey of world distribution of the products of industry. A study of commodities, of international trade, and of trade routes.

Geog. 301. **Political Geography.** (3) A study of commercial relations, territorial aims, and aspirations, boundaries and raw materials.

Geog. 372. **Caribbean America.** (3) The northern countries of Latin America; the West Indies; their patterns of land occupation; their commercial relation with the United States.

Geog. 373. **Geography of South America.** (3) Regions and resources of South America. Distinctive role of each country.

### GENERAL SCIENCE

#### First Term

Science 111. **Introductory College Science.** A general course dealing with the nature of living things and the physical universe. Special considerations are given to the physical make-up of the earth, with utilization of matter and energy, general make-up of organisms, biological and physical dynamics. The above principles are interpreted in terms of man's relationship to the universe. Recommended for students in Business. One hour daily. Three hours credit.

#### Second Term

Science 112. Continuation of Science 111. One hour daily. Three hour course.

### DEPARTMENT OF PHYSICS

#### First Term

211. **General Physics.** The study of mechanics including the resolution of forces, the inclined plane, the pulley and moments of inertia. Two hours daily. Four hours credit.

#### Second Term

213. **General Physics.** Electricity and Magnetism. The fundamentals of the electro-magnetic machines and a study of simple electrical apparatus. Two hours daily. Four hours credit.

Clip a small  
unmounted  
photograph  
here

TENNESSEE A. & I. STATE COLLEGE  
Nashville 8, Tennessee  
APPLICATION BLANK  
Conditions of Admission

Check Quarter: ( ) Fall ( ) Winter ( ) Spring ( ) Summer

Date \_\_\_\_\_, 19\_\_\_\_

1. The following are requisites which have been established for admission to Tennessee A. & I. State College.

1. Satisfactory evidence of good health.
2. Satisfactory evidence of unquestioned moral character.
3. A high school graduate.
4. A willingness on the part of the applicant to submit to any proper rule necessary for the good government of the college.

(Use Ink)

2. Name in full \_\_\_\_\_

3. Home address, Street & No. or R.F.D. \_\_\_\_\_

4. City \_\_\_\_\_ State \_\_\_\_\_ County \_\_\_\_\_

5. Date of Birth \_\_\_\_\_ Age \_\_\_\_\_ Sex \_\_\_\_\_ H. S. Graduate? \_\_\_\_\_ Class \_\_\_\_\_  
Mo. Day Year Rank \_\_\_\_\_

6. Church preference \_\_\_\_\_ Member? \_\_\_\_\_ Married? \_\_\_\_\_ Single? \_\_\_\_\_

7. Mother's name \_\_\_\_\_ 8. Father's name \_\_\_\_\_

P. O. Address \_\_\_\_\_ P. O. Address \_\_\_\_\_

Occupation \_\_\_\_\_ Occupation \_\_\_\_\_

9. Guardian \_\_\_\_\_ Address \_\_\_\_\_ Occupation \_\_\_\_\_

10. Boarder or City Residence Student \_\_\_\_\_ New or former Student \_\_\_\_\_ Arrival Date \_\_\_\_\_

11. List all high schools and colleges to which you have been granted admission. Begin with the high school.

Do not omit the last school attended.

Name of School	Location	Date of Attendance	Date of Graduation
_____	_____	19__ to 19__	_____
_____	_____	19__ to 19__	_____
_____	_____	19__ to 19__	_____

12. Check the division in which you desire to be enrolled:

- |  |                                    |
|--|------------------------------------|
| 1. Agriculture _____ ( )                         | 7. Science _____ ( )               |
| 2. Business Administration & Education _____ ( ) | Biology _____ ( )                  |
| 3. Education _____ ( )                           | Chemistry _____ ( )                |
| a. Elementary Education _____ ( )                | Mathematics _____ ( )              |
| b. Teaching in High School _____ ( )             | Pre-Medical _____ ( )              |
| c. Health & Physical Education _____ ( )         | Pre-Dental _____ ( )               |
| 4. Industrial Education & Engineering _____ ( )  | Pre-Nursing _____ ( )              |
| 5. Home Economics _____ ( )                      | 8. Social Studies _____ ( )        |
| 6. Humanities _____ ( )                          | a. Geography _____ ( )             |
| a. English _____ ( )                             | b. History _____ ( )               |
| b. Foreign Language _____ ( )                    | c. Political Science _____ ( )     |
| c. Speech and Drama _____ ( )                    | d. Sociology _____ ( )             |
|  | e. Social Administration _____ ( ) |
|  | 9. Graduate _____ ( )              |
|  | 10. Specialized Training _____ ( ) |

13. What positions have you held or what have you done thus far to earn money?

\_\_\_\_\_

14. List awards, honors, prizes and scholarships that you have received: \_\_\_\_\_

\_\_\_\_\_

15. Underscore your school activities, adding any not mentioned:

Writing—School paper, school annual, and literary societies \_\_\_\_\_

Dramatic—School plays, dramatic clubs \_\_\_\_\_

Speaking—Debating, discussion contests \_\_\_\_\_

Music—Band, orchestra, glee club (List instruments you play) \_\_\_\_\_

Class activities \_\_\_\_\_

Miscellaneous—Boy Scouts, Girl Scouts, Girl Reserves, YMCA, YWCA, New Farmers of America, Christian Endeavor, BYPU (Add others not mentioned)

16. a. Name the subjects you like best and give reasons.

Studies

Reasons

\_\_\_\_\_

b. Name the subjects you have liked least and give reasons.

Studies

Reasons

\_\_\_\_\_

17. What are your physical handicaps, if any? \_\_\_\_\_

18. Before admission requirements are complete each student must pass satisfactorily a medical examination administered by this college.

19. Write an autobiography of not more than 500 words including aptitudes, ambitions, and accomplishments in and out of school and attach to this application. (Use ink.)

*The applicant must receive notice of approval and acceptance before coming. All high school and college transcripts must be on file in the Registrar's Office before approval and acceptance.*

Approved by \_\_\_\_\_ Date \_\_\_\_\_ Date to report for registration \_\_\_\_\_  
Registrar

20. This application will be acted upon by the Committee on Admission, ONLY when your official transcript has reached this office. You should request your school to send us your transcript immediately.

21. Have you ever attended any college?

Yes \_\_\_\_\_

No \_\_\_\_\_

Name of college \_\_\_\_\_

Date \_\_\_\_\_

Application for  
R E - E N T R A N C E  
to  
Tennessee A. and I. State College

19 \_\_\_\_\_

1. Check Quarter ( ) Fall ( ) Winter ( ) Spring ( ) Summer I; Summer II

2. If veteran, check status: P. L. 346 ( ); P. L. 16 ( ); Rehabilitation ( )

3. Name \_\_\_\_\_ Sex \_\_\_\_\_  
Last First Other

4. Home address \_\_\_\_\_  
Street and number or R F D

5. \_\_\_\_\_  
City State County

6. Occupation \_\_\_\_\_ Married \_\_\_\_\_ Single \_\_\_\_\_

7. Residence status desired: Campus ( ) City ( )

8. I withdrew for the reason that \_\_\_\_\_

9. Dates last in attendance \_\_\_\_\_

10. Classification \_\_\_\_\_

11. Name of Major Adviser \_\_\_\_\_

12. Major \_\_\_\_\_ in Division \_\_\_\_\_

13. List schools attended since you were last in attendance here.

Name of School	Location	Attendance Dates
_____	_____	19____ to 19____
_____	_____	19____ to 19____
_____	_____	19____ to 19____

14. Have you filed with us transcripts of your record at the school you last attended

\_\_\_\_\_ Dated filed \_\_\_\_\_  
(See below items 20 and 21)

15. Have you ever requested of us issue of a transcript of your record? \_\_\_\_\_  
State approximate date \_\_\_\_\_

16. How long do you plan to continue residence? \_\_\_\_\_

17. Are you wholly responsible for all of your financial support? \_\_\_\_\_

18. Do you plan to earn of your expenses while in attendance? \_\_\_\_\_  
How? \_\_\_\_\_

19. Do you plan to become a candidate for a degree? \_\_\_\_\_



20. This applicant must receive notice of approval and acceptance before coming. All high school and college transcripts must be on file in the Registrar's Office before approval and acceptance.

21. This application will be acted upon by the Committee on Admissions, ONLY when your official transcript has reached this office. You should request your school to send us your transcript immediately.

22. Approved by \_\_\_\_\_ Date \_\_\_\_\_ Date to report  
Registrar

for registration \_\_\_\_\_

Do Not Write Below This Line

---

Committee Reaction



