The College of Education is historically a major function of The University of Tennessee. Beginning in 1903, when the first courses for teachers were offered, the University has increasingly fulfilled its responsibility to provide schools with competent teachers and service personnel and to improve the teaching profession by continually upgrading its membership. The College of Education was established in 1926, and all teacher preparation programs at The University of Tennessee are now coordinated within its seven departments and its School of Health, Physical Education, and Recreation.

The College of Education holds membership in the American Association of Colleges for Teacher Education. All certification and degree programs through the doctoral level are fully accredited by the National Council for Accreditation of Teacher Education, the Southern Association of Colleges and Schools, and the Tennessee State Department of Education.

The faculty of the College of Education is committed to performing three major functions: (1) to provide professional preparation for teachers, administrators, and school service personnel at undergraduate and graduate levels; (2) to collaborate with school personnel, educational agencies, professional groups, and others interested in the evaluation and improvement of educational opportunities, programs, and services; and (3) to promote and conduct experimental and research studies in education.

The teacher preparation programs represent utilization of University-wide resources and cooperation of all appropriate units. Certain requirements are of basic importance: A broad cultural background in the arts and sciences (general education), mastery of professional knowledge and skills, and thorough preparation of specific teaching fields. Through a carefully planned program of combined academic and direct experiences, the prospective teacher acquires a depth and breadth of knowledge and understanding superior to that of the typical college graduate—superior in cultural and citizenship appreciation as well as in professional and scholarly accomplishment.

The Claxton Education Building contains many modern and functional facilities for the professional training of teachers. Classrooms, laboratories, seminar rooms, faculty and administrative offices, the instructional materials center, the Bureau of Educational Research and Service, the School Planning Laboratory, and facilities for special activities such as observation and experimentation are located in this air-conditioned building.

Teacher Placement Service

The College of Education, cooperating with the University Placement Service, assists qualified students and alumni in securing positions. School and college administrators are cordially invited to make full use of these services in their efforts to employ competent personnel.

General Information

Association with the College

Application for association with the College of Education may be made at any time. The prospective student must provide evidence of having completed and grade point averages earned at other institutions will be used in the determination of Full Status for transfer students who have not earned the minimum high school grade point average and standardized test scores.

Admission to Teacher Education

Students desiring certification to teach must gain admittance into Teacher Education before enrolling in various required upper-division education courses. Applicants are encouraged to (1) begin the multiphase admission process during their first quarter of full-time attendance and (2) complete the process by approximately the sixteenth quarter hour.

Applicants must complete the following requirements (recommended sequence for completion):

1. Basic Skills Tests. The State Board of Education requires all applicants to pass tests of reading comprehension, mathematics computation, and language. Applicants with a minimum ACT composite score of 17 are exempted from this requirement. (Transfer students having a minimum ACT composite score of 17 or a total score of 765 (Verbal/Quantitative) on the SAT or CEEB must supply the assistant dean's office with an official record of their score(s).)

Students, except for junior-senior transfer students, are encouraged to take the basic tests during their second quarter of full-time attendance, using time during their first quarter of attendance for test preparation. (Details on preparation are available through the assistant dean's office.)

2. Socio-Emotional Evaluation. Applicants are required to undergo a socio-emotional (personality) evaluation. Students whose scores on selected scales represent extreme variations from established norms will be required to undergo further evaluation.

Students, except for junior-senior transfer students, should take the personality test during their third quarter of full-time attendance.

3. Field Experience. Applicants to Teacher Education must provide evidence of having
successfully completed a field experience in a public school setting. (Refer to program area curriculum for specific required experiences.) Students, except for junior-senior transfer students, should complete the field experience requirement during their fourth quarter of full-time attendance.

4. Speech and Hearing Evaluations. Applicants are required to undergo speech and hearing evaluations.

Students, except for junior-senior transfer students, should undergo the speech and hearing evaluations during their fourth quarter of full-time attendance.

Applicants to Teacher Education are required to have a minimum of 2.5 UTK grade point average. Furthermore, transfer students must, also, have a minimum of 2.5 cumulative grade point average. (No applicant’s grade point average will be considered until the completion of at least 60 quarter hours.)

A program area recommendation may be required of some applicants.

Applicants to Teacher Education will be reviewed by the Office of Student Conduct. Any applicant who has established a record of misconduct will be reviewed by the college’s Admission and Retention Committee.

Graduate students, except for those previously admitted to the College’s Teacher Education Program, must gain admittance to Teacher Education before receiving the College’s recommendation for certification.

Students interested in complete details on admission to Teacher Education should contact the Assistant Dean for Support Services, 212 Claxton Education Building.

Admission to Student Teaching

Application for all student teaching programs must be filed no later than January 1 of the academic year preceding the actual experience. For example, if a student plans to student teach during the 1983-84 academic year, application must be made by January 1, 1983. Applications for student teaching may be completed on approximately four occasions each quarter. A schedule of the application meetings is available in the Office of the Dean of Student Teaching, 212 Claxton Education Building.

Making application for student teaching is not contingent upon admission to the Teacher Education Program. Students should apply for student teaching simultaneously with the appropriate program regardless of their status in the process of admission to the Teacher Education Program.

Following are the general prerequisites for student teaching. Student teaching prerequisites are subject to program area (art, elementary, P.E., etc.) availability in the student teaching office or from the academic advisor.

1. Admission to the Teacher Education Program no later than the quarter preceding student teaching.
2. Completion of the professional core courses (Education 3010, 3020, 3030 and Educational Psychology 2430 or 3810).
3. Completion of field experiences required in the program curriculum.
4. Completion of the special methods teaching courses at The University of Tennessee.
5. Completion of at least nine quarter hours of prescribed course work in Professional Education at The University of Tennessee at Knoxville.

6. Senior standing and a minimum grade point average of 2.5 on work completed at The University of Tennessee, and a cumulative grade point average of 2.5. In addition, any record established by the student in the Office of Student Conduct will be reviewed by the Admissions and Retentions Committee.

7. The 15-quarter hour student teaching experience is evaluated on a satisfactory-no credit basis. The University policy requires a 2.0 in the last 45 hours worked.

The most important criterion in placing student teachers in the public schools is the value of the experience for preparing for teaching. The University cannot guarantee the geographic locale desired by the student though effort will be made to follow the student’s wishes. Student teaching centers are maintained in East Tennessee communities, some of which are at a considerable distance from Knoxville. Married students will be placed as near their homes as possible in order to preserve family life.

Substitutions

It is sometimes necessary and advisable for students to substitute other courses for those required in a particular curriculum. This is particularly true of students who transfer to The University of Tennessee College of Education from another college or university. The general test of whether a substitution would be appropriate is, Does the course you with to substitute meet the spirit of the course requirement? That is, is the content similar or perhaps more appropriate to your needs?

To initiate a substitution the student should visit with the advisor first. If they agree that the substitution is an appropriate one, the substitution request form should be forwarded to the Office of the Assistant Dean for Support Services, 212 Claxton Education Building. Approved petitions are forwarded to the Dean of Admissions for further approval, and for filing in the Records Office.

Courses taken at junior-senior colleges may be substituted for lower division (1000/2000 level) courses or may be used as electives. These courses may not be substituted for upper division (3000/4000 level) courses.

Recommendation for Certification

The application for a professional teacher’s certificate should be completed early in the final quarter before graduation. Application forms may be obtained in the Registrar’s Office, 215 Student Services Building, and in the Office of the Assistant Dean for Support Services, 212 Claxton Education Building.

Tennessee state regulations stipulate that the applicant for a professional certificate must be recommended by the teacher-training institution. The dean of the College of Education is the official designated to recommend University of Tennessee graduates for teacher certification. To receive this recommendation, the applicant must have fulfilled the following requirements:

1. A minimum cumulative grade point average of 2.0.
2. Satisfactory performance of the student teaching experience.
3. A minimum grade point average of 2.0 in the teaching field(s).
4. Completion of a methods course in each area of endorsement.

5. Fulfillment of all special recommendations of the Admissions and Retention Committee.

6. Successful completion of at least one three quarter hour course dealing with the learning characteristics of handicapped students.

7. Effective January 15, 1981, the Tennessee State Board of Education requires all persons seeking Tennessee teaching certification to take the National Teacher Examinations. Students may obtain further information in the Advising Center, 212 Claxton Education Building.

Graduate Programs

The College of Education, through the Graduate School, offers programs leading to the Master of Science degree, the Master of Education degree, the Master of Arts in Education degree, the Specialist in Education (advanced graduate) degree, the Doctor of Education, and the Doctor of Philosophy degrees. For further information, see the Graduate Catalog.

Undergraduate Curricula

The college offers courses of study leading to the Bachelor of Science degree in Education and to eligibility for teacher certification in Tennessee and in those states which grant reciprocity privileges to graduates of institutions accredited by the National Council for Accreditation of Teacher Education (NCATE). A core of studies provides the foundation for specialization in all teacher education curricula. In addition, approved concentrations must be completed in subject fields specifically related to the public school curriculum. A choice is to be made among programs leading to recommendation for certification at one of three levels: elementary, (kindergarten-9), secondary (grades 7-12), or special subjects in grades 1-12.

Courses in library science are available to students who are interested in beginning positions in any library or in preparation for further graduate study in professional librarianship. The minimum requirements for full-time librarianship in any size school in Tennessee can be met through completion of the basic library service courses (3510, 3520, 3530, 3540, 3410, 3450, 4270, 4330, 4750). Endorsement as a librarian requires 27 quarter hours in library science. At the undergraduate level, only a minor in library science is available. Students in the college will select an appropriate curriculum from those outlined under the undergraduate curriculum section. Students interested in this program should consult with a member of the faculty of the Graduate School of Library and Information Science.

Students should work closely with faculty advisers in planning programs of study. The chosen curriculum must be followed as outlined to assure graduation and certification, and any proposed substitution for a required course should be filed for approval before the end of the junior year.

Satisfactory/No Credit Courses

For the curricula listed under roman numerals I, II, and III only, a student may include a maximum of 30 hours in non-
directed electives taken on a Satisfactory/No Credit basis in the total hours required for graduation. S/NC may not be used in required courses or core professional courses, except where the course is offered on an S/NC basis (such as student teaching and field experiences). An area of concentration will be considered as non-directed electives except where specific courses or core professional electives are required.

NOTE: Students are advised to consult the University's degree requirements as stated in the front section of this catalog as well as the requirements for the college or department.

I. Curricula for Elementary Teachers

A. Grade 1 through Grade 8 (certification for grades 1-8)

GENERAL EDUCATION

- Communications (13 hours)
  English 1010 or 1011; 1020; 1031 or 1032 or 1033 (English 1019 may be required for some students); Speech 2021 or 2311.

Health and Physical Education (15 hours)

- P.E. 3450 (3), School Health 3610 (3), P.E. activities (4), P.E. electives (2-3 hours) and Health elective (3) from Public Health 1110, 3000, 3210, School Health 3410, 3510.

Humanities (12 hours)

- Literature 8 hours; Art Education 3500 or Music Education 3500 (4 hours).

Mathematics (9 hours)

- Mathematics 2110, 2120, 2130.

Natural Sciences (16 hours)

- 8 hours in biological science.

- Recommended series are Biology 1210, 1220 (1230) or Botany 1110, 1120, 8 hours in physical science. Recommended series are Physics 1410, 1420 (1430), or Geology 1410, 1420, or Astronomy 2110, 2120 (2130), or Chemistry 1110, 1120 (1130).

Social Studies (16 hours)

- U.S. History (8 hours) it is recommended that the history course be taken at the sophomore level; Social Institutions (4 hours). Geography (4 hours).

CORE PROFESSIONAL COURSES

- 9 hours
  Educ. C & I 3010*, 3020*, 3030*.

ELEMENTARY EDUCATION COURSES

- 49 hours

SPECIALIZED COURSES

- 33 hours
  Educational Psychology 3430; Educ. Psych. 3100; Art Ed. 3010, 3150; Music Ed. 2100, 3110; Ed. C&I 3510; Special Ed. 3333; C&I 4303; C&I 4420; C&I 4750.

ELECTIVES

- 6 hours

TOTAL MINIMUM REQUIRED

- 191 hours

B. Kindergarten through Grade 8 (certification for Kindergarten - Grade 8)

GENERAL EDUCATION

- Communications (13 hours)
  English 1010 or 1011; 1020; 1031 or 1032 or 1033 (English 1019 may be required for some students); Speech 2021 or 2311.

Health and Physical Education (15 hours)

- P.E. 3450 (3), School Health 3610 (3), P.E. activities (4), P.E. electives (2-3 hours) and Health elective (3) from Public Health 1110, 3000, 3210, School Health 3410, 3510.

Humanities (12 hours)

- Literature 8 hours; Art Education 3500 or Music Education 3500 (4 hours).

Mathematics (9 hours)

- Mathematics 2110, 2120, 2130.

Natural Sciences (16 hours)

- 8 hours in biological science.

- Recommended series are Biology 1210, 1220 (1230) or Botany 1110, 1120, 8 hours in physical science. Recommended series are Physics 1410, 1420 (1430), or Geology 1410, 1420, or Astronomy 2110, 2120 (2130), or Chemistry 1110, 1120 (1130).

Social Studies (16 hours)

- U.S. History (8 hours) it is recommended that the history course be taken at the sophomore level; Social Institutions (4 hours). Geography (4 hours).

CORE PROFESSIONAL COURSES

- 9 hours
  Educ. C & I 3010*, 3020*, 3030*.

ELEMENTARY EDUCATION COURSES

- 49 hours

SPECIALIZED COURSES

- 33 hours
  Educational Psychology 3430; Educ. Psych. 3100; Art Ed. 3010, 3150; Music Ed. 2100, 3110; Ed. C&I 3510; Special Ed. 3333; C&I 4303; C&I 4420; C&I 4750.

ELECTIVES

- 6 hours

TOTAL MINIMUM REQUIRED

- 191 hours

C. Nursery School through Grade 3 (certification for Kindergarten - Grade 3)

GENERAL EDUCATION

- 83 hours
  Communications (12 hours)
  English 1010 or 1011; 1020; 1031 or 1032 or 1033; Speech 2021 or 2311.

Humanities (12 hours)

- Literature: 4 hours; Music 1210 or 1220 or Art 1815 or 1825; philosophy or religious studies (4).

Natural Science (16 hours)

- Biological science in series or combination (8); physical science (in series or combination) (8).

Mathematics (9 hours)


Social Sciences (18 hours)

- History (4); Child and Family Studies 4610; Economics 2110; Anthropology 2530 or 3410 or Human Services or Sociology 4020 or 4510; Electives (from anthropology, economics, geography, human services, political science, sociology).

INTERDISCIPLINARY STUDIES IN HOME ECONOMICS (16 hours) H.E.

- Requires admission to Teacher Education Program.

1510, 1520, 2510, 3510.

SPECIALIZED COURSES

- 34 hours
  C&I 4610, 4810, 4820, 4850; Public Health 3610; health electives; Art Ed. 2100, 2110; Music Ed. 2100, 3110; Educ. C & I 4303; CFS 3120; C & I 3510.

FOUNDATIONS COURSES

- 15 hours
  CFS 1500, 3210; Select one: CFS 3220, 4230 or 4350; Select two: Educ. C & I 3010*, 3020*, 3030*.

TEACHING AND THEORY COURSES

- 54 hours

ELECTIVES

- 5 hours

TOTAL MINIMUM REQUIRED

- 192 hours

II. Joint Elementary-Mathematics Education Certification

Mathematics (9 hours)

- Mathematics 2110, 2120, 2130. Students with at least 3 years high school mathematics (e.g. Algebra I, Geometry, and Algebra II) and ACT Mathematics score of at least 22 may replace the 9 hours of Mathematics 2110-20-30 with the following six hours of mathematics courses: 3 hours credit in courses selected from Mathematics 3310, 3320, 3330; 3 hours credit in courses selected from Mathematics 3100, 3110, 3720.

GENERAL EDUCATION

- 90 hours
  Communications (12 hours)
  English 1010-20 and 1031 or 1032 or 1033 (English 1019 may be required of some students); Speech 2021 or 2311.

Humanities (12 hours)

- Literature (8 hours) it is recommended that the history course be taken at the sophomore level; Social Institutions (4 hours). Geography (4 hours).

CORE PROFESSIONAL EDUCATION

- 53 hours
  Educational Psychology 3430; Educational Psychology 3100; Art Ed. 3100, 3150; Music Ed. 2100, 2110; Educ. C & I 3510; Special Ed. 3333; C&I 4303; C&I 4420; C&I 4750.

ELECTIVES

- 5 hours

TOTAL MINIMUM REQUIRED

- 190 hours

B. Kindergarten through Grade 8 (certification for Kindergarten - Grade 8)

GENERAL EDUCATION

- Communications (13 hours)
  English 1010 or 1011; 1020; 1031 or 1032 or 1033 (English 1019 may be required for some students); Speech 2021 or 2311.

1. Requires admission to Teacher Education Program.

1. Total three hours required.

1. Requires admission to Teacher Education Program.

1. Required for Student Teaching.

1. Requires admission to Teacher Education program.
### AREA OF CONCENTRATION
36 hours at least one year of calculus or analytic geometry and calculus.

### SPECIALIZED COURSES
15 hours

### AREA OF CONCENTRATION
36 hours at least one year of calculus or analytic geometry and calculus.

### SPECIALIZED COURSES
15 hours

### GENERAL EDUCATION
70 hours
**Communications** (13 hours)
- English 1010 or 1011; 1020; 1031 or 1032 or 1033 (English 1019 may be required of some students), and Speech 2311.

**Health and Physical Education** (9 hours)
- Including at least 3 hours of school health or public health or nutrition (P.E. must be represented).

**Humanities** (16 hours)
- Any 4 hours from English 2510-20-30-40-50-60-70-80-90; plus 12 hours of electives from anthropology, art, English literature, Library and Information Science 3510-20-30, foreign language (beyond introductory level), history (upper-division), music, philosophy, or religious studies. (NOTE: At least three fields must be represented.)

**Mathematics** (4 hours)
- Natural Science (12 hours)
  - A biological science, a physical science, or a combination of the two.

**Psychology** (4 hours)
- Psychology 2500.

**Social Studies** (12 hours)
- Two fields should be represented from anthropology, economics, geography, history, human services, political science, and sociology.

### EDUCATION
39 hours
**Core**
- EDUC 3010, 3020, 3030

**Specialized Professional Education**
- 39 hours
  - Special Ed 3333, Educational Psychology 3810; 6 hours of appropriate methods courses; Educ. C&I 3521-22-23, 4100, 4710-20*, Ed. 4300 or Ed. 4304, and 6 hours of electives selected from the College of Education.

**NOTE:** An appropriate special methods course must be taken in each subject and/or area in which endorsement is sought, and admission to Teacher Education Program is required for each.

**English**
- Educ. C&I 3657 and 3658

**Foreign Language**
- Educ. C&I 3652 and 3653

**Mathematics**
- Educ. C&I 3751 and 3752
- Education 3654 and 3654
- Social Studies 3653 and 3655

### TEACHING SUBJECT AREAS AND ELECTIVES
72 Hours
- See outline of the programs below.

### TOTAL MINIMUM REQUIRED
190 hours
- Programs available:
  - Program majors leading to graduation and certification for high school teaching range from the broad fields, comprehensive major, to the subject major and minor combination programs.

#### A. English Education
1. English with a Minor
   - 45 quarter hours in English, including three in English language (3330, 3340, 4430, 4440, 4450). Nine of the 45 hours may be in speech provided the student is not minoring in speech.
   - 27 hours in some other subject which constitutes a minor. (If students who elect to minor in a foreign language do not have two entrance credits in a foreign language from high school, they must take 36 hours in a foreign language.)

#### B. Foreign Language Education
1. Foreign Language Area
   - 36 quarter hours in one language with no less than 18 quarter hours of upper-division courses.
   - 27 quarter hours in another language with no less than 18 quarter hours of upper-division courses.
   - 9 hours of general and applied linguistics.

2. Foreign Language Major and Minor
   - 45 quarter hours (9 less quarter hours if student is majoring in a foreign language and has at least two entrance credits in a foreign language from high school and one language with no less than 18 quarter hours of upper-division courses.

3. Students enrolled in this program must take two English methods courses:
   - Education C&I 3657 and 3658.

### C. Mathematics Education
1. Area Majors in Mathematics
   - Mathematics and Physical Sciences (75 hours)
     1. Mathematics (27 hours) must include at least one one-year sequence in calculus and analytic geometry and calculus and at least 12 quarter hours in courses numbered 3050 or above with at least one course in algebra and one in geometry.
   - At least one of the two minor areas must meet Tennessee minimum endorsement requirements for the subject area.

### D. Psychology Education
1. A concentration in psychology shall require a minimum of 30 quarter hours—12 hours upper division distributed as follows:
   - Core: 16 hours
   - Psychology 2500
   - Psychology 3120
   - Psychology 3150
   - Psychology 3210

### E. Science Education
1. Area Majors in Science
   - Biological Science (72 hours minimum)
     - Biology 1210-20-33* or Botany 1110-20-40 (12 hours)
   - Biology 1110-20-33 (12 hours)
   - Microbiology 3180 (4 hours)
   - Chemistry (excluding 1410 series) (12 hours)
   - Science electives—32 hours minimum, approved electives must be selected from one or more of the following: biological sciences—biochemistry, botany, microbiology, zoology, physical science—chemistry. Minimum requirement in biological science consists of 56 hours (12 hours chemistry required, excluding 1410 series).

*Requires admission to Teacher Education Program.
+Excluding Math 2102, 2110, 2120, 2130.
+Excluding Physics 1410, 1420, 1430.
+Plant and animal science courses required.
Endorsements: Biology (Life Science) and General Science
b. Earth and Environmental Sciences (72 hours minimum)
Includes 12 hours biological science required, and 14 hours science electives selected from astronomy, chemistry (excluding 1410 series), geography, geology, and physics.
Geology (10 hours), Chemistry (8 hours), Physics (excludes 1410 series) (4 hours), Astronomy (4 hours).

3. Subject Majors in Science
b. Statistics (9 hours)

4. Social Science Education
Program I
Broad fields Social Studies (Major 72 hours)
Certification includes economics, geography, history, political science and sociology.
a. 28 quarter hours in history, including 1510-20 and 2510-20, and 12 hours in World and/or American history.
b. 8 quarter hours in each of the following: geography, political science, and sociology.
c. 4 quarter hours in anthropology.
d. 9 quarter hours in economics, including 2110-20 and an elective.
e. 7-8 additional quarter hours in the above-listed or related fields.
Program II
Specific subject major (45 hours plus 27 hours for a minor).

Minors. A minor is defined as 27 quarter hours in a single subject area, i.e., biology, history, French, psychology, speech, etc. A minor does not meet certification requirements in all cases.

IV. Art and Music Education
A. Art Education
GENERAL EDUCATION........................68-70 hours
Communications (12-13 hours)

1. Plant and animal science courses required
2. Certification in any single area.

2. Subject Majors in Science
a. Natural Science (72 hours minimum)
Basic requirement of 12 hours in each of the four following subjects:
b. Biology 1210-20 or Botany 1110-20-40.
Chemistry series (excluding 1410 series).
Physics (excluding 1410 series)
Mathematics (excluding 1020, 2020 and 2110-20).
Credit for only 12 math hours accepted in the program.
Approved science electives—24 hours minimum, including a total of six quarters of course work in one subject area other than math.

5. Specialized Professional Education

A. Required participation, with credit or as a registered auditor, in a major instrumental or vocal organization each quarter in residence (on-campus) as a music education major, as approved by the student's advisor and the directors of the organizations concerned.

6. Specialized Professional Education

A. Music Education
GENERAL EDUCATION..........................66-68 hours
Communications (12-13 hours)

A. 25 quarter hours in Music Education:
1010-20; 2110; 2411; 2421; 2431; 2433; 3102; 3104; 4420; 4510.

7.Specialized Professional Education

A. Concentration in Elementary Music Education
a. 31 quarter hours in Music Education:
1010-20; 2110; 2411; 2421; 2431; 2433; 3102; 3104; 4420; 4510.

3. Subject Majors in Science
b. Statistics (9 hours)

4. Social Science Education
Program I
Broad fields Social Studies (Major 72 hours)
Certification includes economics, geography, history, political science and sociology.
a. 28 quarter hours in history, including 1510-20 and 2510-20, and 12 hours in World and/or American history.
b. 8 quarter hours in each of the following: geography, political science, and sociology.
c. 4 quarter hours in anthropology.
d. 9 quarter hours in economics, including 2110-20 and an elective.
e. 7-8 additional quarter hours in the above-listed or related fields.
Program II
Specific subject major (45 hours plus 27 hours for a minor).

Minors. A minor is defined as 27 quarter hours in a single subject area, i.e., biology, history, French, psychology, speech, etc. A minor does not meet certification requirements in all cases.

IV. Art and Music Education
A. Art Education
GENERAL EDUCATION..........................68-70 hours
Communications (12-13 hours)

1. Plant and animal science courses required
2. Certification in any single area.

2. Subject Majors in Science
a. Natural Science (72 hours minimum)
Basic requirement of 12 hours in each of the four following subjects:
b. Biology 1210-20 or Botany 1110-20-40.
Chemistry series (excluding 1410 series).
Physics (excluding 1410 series)
Mathematics (excluding 1020, 2020 and 2110-20).
Credit for only 12 math hours accepted in the program.
Approved science electives—24 hours minimum, including a total of six quarters of course work in one subject area other than math.

5. Specialized Professional Education

A. Required participation, with credit or as a registered auditor, in a major instrumental or vocal organization each quarter in residence (on-campus) as a music education major, as approved by the student's advisor and the directors of the organizations concerned. Students preparing to be band directors are expected to enroll in marching band unless officially excused.

6. Specialized Professional Education

A. Concentration in Elementary Music Education
a. 31 quarter hours in Music Education:
1010-20; 2110; 2411; 2421; 2431; 2433; 3102; 3104; 4420; 4510.

3. Subject Majors in Science
b. Statistics (9 hours)

4. Social Science Education
Program I
Broad fields Social Studies (Major 72 hours)
Certification includes economics, geography, history, political science and sociology.
a. 28 quarter hours in history, including 1510-20 and 2510-20, and 12 hours in World and/or American history.
b. 8 quarter hours in each of the following: geography, political science, and sociology.
c. 4 quarter hours in anthropology.
d. 9 quarter hours in economics, including 2110-20 and an elective.
e. 7-8 additional quarter hours in the above-listed or related fields.
Program II
Specific subject major (45 hours plus 27 hours for a minor).

Minors. A minor is defined as 27 quarter hours in a single subject area, i.e., biology, history, French, psychology, speech, etc. A minor does not meet certification requirements in all cases.

IV. Art and Music Education
A. Art Education
GENERAL EDUCATION..........................68-70 hours
Communications (12-13 hours)

1. Plant and animal science courses required
2. Certification in any single area.
Communications (12 hours)
- English 1010 or 1011; 1020 and 1031 or 1032 or 1033; Speech 2021 or 2311.

Humanities (16 hours)
- English 2510 or 2520; 2520-30-40; 2910-20; 3010-20-30-40; 3100, 3180; 3240; and 13 hours of electives from any upper-division P.E. courses.

Electives
- 20 hours
- Hours to be assigned by minor, endorsement, or electives (None of the 20 hours may be taken in lower-division physical education.)

TOTAL MINIMUM REQUIRED: 197 hours

D. Minor in Secondary Physical Education (27 hours)
- Open only to students with a concentration in elementary physical education.
- P.E. 4120; 4140; 4230; 3170 or 3220; 4310; 4410 or 3010; 3260; 1032; 2032; P.E. electives (2 hours)

E. Minor in Coaching (28-31 hours)
- Zoology 2020-30 or 3080; Zoology 4940;
- Physical Education 3320, 3250, 3910, 3000, 4150. Two courses in the area of coaching to be chosen from the following: Physical Education 3110, 3120, 3130, 3200, 4460.

F. Major in Dance
- GENERAL EDUCATION .: 91 hours
- Communications
  - English 1010 or 1011; 1020 and 1031 or 1032 or 1033; Speech 2311.

Humanities
- Art 1815-25; English literature 2000 and above; one elective from philosophy, foreign language, upper-division history, or religious studies.

Mathematics (4 hours)
- Natural Science (8 hours)
  - Any electives selected from biological and/or physical sciences.

Psychology (8 hours)
- Psychology 2500 plus 4 hours of electives.

Social Sciences (8 hours)
- Sociology 1510 or 1520 plus 4 hours of electives.

Health and Safety (3 hours)
- School Health 3210.

Cultural Arts (32 hours)
- Theatre 1320-30-40, 2111, 2221 or 2231;
- Music 1000, 1210, 2320, 2330, 2340 or 2310.

DANCE
- Physical Education 2040-50-60, 2070, 3010-20, 3040-41, 3060-61-62, 3070-75, 3300 or 4300, 3320, 3400, 4050, 4060, 4080-90, 4310, 4560, 4565.

CONCENTRATION AREAS .: 12 hours
- Ballet: Physical Education 4000, 4005, or Modern: Physical Education 3080, 4010.

ELECTIVES
- 20 hours

TOTAL MINIMUM REQUIRED: 200 hours

G. Minor in Dance (29-31 hours)
- Option I. Physical Education 2070, 3030, 3070, 4080, 4090, 2040-50-60 or 3060-61-62; 4 hours selected from 3075 or 4000 or 4055.

Option II. Physical Education 2070, 3030, 3040, 4080, 4090, 2040-50-60 or 3060-61-62; 4 hours selected from 3075 or 4000 or 4055 or 4060 or 4065 or 4080-90 or 4310, 4560.

Option III. Physical Education 3070, 3010, 3070, 4080, 4090, 4150, 4310, 4560, 3060-61-62; 4 hours selected from 3075-4000-4005 or 4060 or 4065 or 4080-90-4010.

H. Major in Recreation
- GENERAL EDUCATION .: 98 hours

*Requires admission to Teacher Education Program.
**Requires admission to Teacher Education Program.
Outdoor Recreation and Camping:
Physical education—2 teams, 3 individual sports.

FREE ELECTIVES: to be added to above requirements to total minimum of 192 hours for the degree.

TOTAL MINIMUM REQUIRED.........192 hours

I. Major in Public Health

GENERAL EDUCATION..................87 hours
Communications (13 hours)
English 1010 or 1011; 1020 and 1032; Speech 2311.

Health and Physical Education (11 hours)
School Health 3000
School Health 3210
Physical education electives.

Humanities (16 hours)
English—any 4 hours from literature; Anthropology 2530; Philosophy or religious studies elective (4); Art or music elective (4).

Mathematics (4 hours)
Natural Science (20 hours)
Chemistry or physics sequence; Biology 1210-20 or Zoology 2920-30.

Psychology (4 hours)

Social Studies (19 hours)
Economics 2110; Geography 2110 or 2120 or Political Science 2510 or 2520; History 1510-20 or 2510-20; Sociology 1510.

TOTAL MINIMUM REQUIRED.........190 hours

J. Major in School Health Education

GENERAL EDUCATION..................87 hours
Communications (13 hours)
English 1010-20-33; Speech 2311.

Health and Physical Education (11 hours)
School Health 3000, 3210; Physical education electives.

Humanities (16 hours)
English—any 4 hours from literature; Anthropology 2530; Philosophy or religious studies elective; Art or music elective.

Mathematics (4)

Natural Science (20 hours)
Chemistry or physics sequence; Biology 1210-20 or Zoology 2920-30.

Psychology (4)

Social Studies (19 hours)
Economics 2110; Geography 2110 or 2120 or Political Science 2510 or 2520; History 1510-20 or 2510-20; Sociology 1510.

TOTAL MINIMUM REQUIRED.........190 hours

K. Minor in Driver and Traffic Safety Education (28 hours)

REQUIRED COURSES..................17 hours
Safety 3520, 4410, 4420; School Health 3210.

ELECTIVES..................11 hours
At least nine hours selected from: School Health 4120; Educ. C & I 4750; Educ. Psychology and Guidance 2520; School Health 3650.

L. Minor in School Health Education (30 hours)
School Health 3000, 3210, 3410, 3650, 3420; Safety 3520; Public Health 3310, 3320, 4410; Nutrition 1320 or School Health 4420 or School Health 3620.

VI. Special Education*

A. Concentration in General Special Education

GENERAL EDUCATION.................74 hours
Communications (9 hours)
English 1010-20 and 1031 or 1032 or 1033.

Health and Physical Education (18 hours)
P. E. 3430, 3450, 4110 activities electives (4 hours); School Health 3510; Psychology 2500.

Humanities (12 hours)
Literature (4 hours); electives from anthropology, art, literature, library and information science, upper-division history, music, philosophy, religious studies, or foreign language above the introductory level (4 hours).

Mathematics (3 hours)
Elective (Math 2110 recommended).

Natural Science (16 hours)

*Requires admission to Teacher Education Program.

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Biological science (12 hours); physical science (4 hours);

Social Studies (16 hours)
History 2510, 2520 and electives from anthropology, economics, geography, political science or sociology (8 hours).

CORE PROFESSIONAL EDUCATION...8 hours
Educ. C & I 3010* and 3030*

SPECIALIZED PROFESSIONAL EDUCATION...........42 hours

Language Arts (12 hours):

Mathematics Methods (3 hours)
Educ. C & I 3350.

Psychology or Educational Psychology (9 hours)

Child Development (9 hours)
Nine elective hours.

Student Teaching in Elementary Schools (9 hours)

SPECIAL EDUCATION COURSES........39 hours
Special Education 3333, 4520, 4110, 4120, 4130, 4150, 4351, 4361, 4440, 4610, 4740, 5260, 5620.

SPECIAL EDUCATION STUDENT TEACHING........15 hours
Special Education 4880, 4881, 4882.

ELECTIVES..................13 hours

TOTAL MINIMUM REQUIRED.........189 hours

*Required admission to Transfer Education Program.

B. Concentration in Combined General Special Education and Elementary Education

GENERAL EDUCATION.................89 hours
Communications (12 hours)
English 1010-20 and 1031 or 1032 or 1033; Speech 2311 or 2511 or 2521 or any speech elective. (Some students may be required to take English 1019 based on placement scores.)

Health and Physical Education (20 hours)
P. E. 3450, School Health 3510, School Health 3650, Psychology 2500, P. E. 4110 and 3430, and four elective hours.

Humanities (12 hours)
Literature (6 hours); elective from foreign language above the introductory level, philosophy, religious studies, art, or music (4 hours).

Mathematics (9 hours)
Math 2110, 2120, 2130.

Natural Science (20 hours)
Biology 1210, 1220, 1230 and Physics 1410, 1420.

Social Studies (18-20 hours)
History 2510; electives from anthropology, economics, geography, political science and sociology. Minimum of three areas to be represented (14-16 hours).

CORE PROFESSIONAL COURSES........9 hours
Educ. C & I 3010*, 3020*, 3030*.

ELEMENTARY EDUCATION COURSES........36 hours

*Requires admission to Teacher Education Program.
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Educ. C & I 3260, 3270, 3280, 3281, 3350, 3351, 3720, 3511-12-13 or Special Education 4361, 4610*, 4920.

SPECIALIZED COURSES.............. 18 hours

SPECIAL EDUCATION COURSES...... 42 hours
Special Education 3333, 4520, 4110, 4210, 4610, 4130, 4351, 4440, 4740, 5260, and 6 hours psychology or educational psychology electives.

STUDENT TEACHING WITH EXCEPTIONAL CHILDREN............................ 15 hours
Special Education 4860, 4861, 4862.

TOTAL MINIMUM REQUIRED.............. 209 hours

C. Concentration in the Hearing Impaired
ADMINSION TO THE PROGRAM FOR TEACHERS OF THE HEARING IMPAIRED
In addition the college requirements for Admission to Teacher Education, Special Education students in the program for teaching the hearing impaired will follow these procedures.

1. File application for admission to the program.
2. The Program Screening Committee will review all applications quarterly. The following criteria will be considered:
   a. cumulative grade point average;
   b. completion of these courses: Special Education 2110-20, 3333 and 9 additional hours of course work in the major field (AREA OF CONCENTRATION);
   c. advisor's recommendation (based on personal interview and career planning);
   d. instructor's recommendations (from the courses in Special Education listed above);
   e. the candidate's personal aptitude for teaching in Special Education as indicated by practice experiences;
   f. writing sample;
   g. the committee will grant full, or provisional, admission or will deny admission. A candidate may appeal the decision to the Departmental Appeals Committee and the College Appeals Committee.
3. Formal admission to the program will be granted after the Program Screening Committee reviews applications and the above criteria are considered.
4. A comprehensive examination in sign language and finger-spelling must be taken at least two quarters before student teaching. A remedial course in sign language and finger-spelling will be offered each quarter.
5. Transfer students will follow the same admission procedures.

1. Specialization in Early Childhood Development

GENERAL EDUCATION.................. 74 hours
Communications (9 hours)
English 1010-20 and 1032. (Some students may be required to take English 1019 based on placement scores.)

Health and Physical Education (10 hours)
School Health 3510, P.E. 3450; School Health 3510, 3610; P.E. 3450; School Health 3510, 3610; P.E. 3450.

Psychology (4 hours)
Psychology 2500.

Humanities (11-12 hours)
English literature

7-8 hours electives (choose 2 areas):
anthropology, art, history, philosophy, foreign language (above introductory level), religious studies, music, library and information science.

Mathematics (3 hours)
Mathematics 2110.

Natural Sciences (20 hours)
8-12 hours in biological science (choose one series): Biology 1210-20-30, Botany 1110-20, 8-12 hours in physical science: Physics 1410-20-30, Astronomy 2110-20-30, Chemistry 1110-20-30.

Social Studies (17-20 hours)
History 1510-20 or 2510-20, 9-12 hours (choose 3 areas): anthropology, economics, geography, political science, sociology.

CORE PROFESSIONAL EDUCATION..9 hours
Education C & I 3010, 3020, 3030.

AREA OF CONCENTRATION....... 67 hours
Audiology and speech pathology elective (3050 recommended), Audiology and Speech Pathology 3010, 3710 (or Sp. Ed. 4240), 4930 (or 5950), Special Education 2110, 2120 (or Educ. C & I 3511-15-19), 3333, 4190, 4200, 4210-20-30, 4250, 4280, 4290, 4351, 4351, 4371, 4870, 4871, and pre-student teaching seminar, 4100 (1).

TOTAL MINIMUM REQUIRED............ 189 hours
3. Specialization in Secondary Education

GENERAL EDUCATION.............. 75 hours
Communications (9 hours)
English 1010-20 and 1032. (Some students may be required to take English 1019 based on placement scores.)

Health and Physical Education (9 hours)
School Health 3510 and physical education electives.

Humanities (11-12 hours)
English literature, 7-8 elective hours (choose from two areas): anthropology, art, history, philosophy, foreign language (above introductory level), religious studies, music, library and information science.

Mathematics (4 hours)
Mathematics 2110.

Natural Science (20 hours)
If major is science education, student must take 12 hours in biological sciences; 8-12 hours in the biological science: (choose one series) Biology 1210-20-30, Botany 1110-20, microbiology, zoology; 8-12 hours in physical science: Physics 1410-20-30, Astronomy 2110-20-30, Chemistry 1110-20-30, Geology 1510-20.

Psychology (4 hours)
Psychology 2500.

Social Studies (18 hours)
History 1510-20 or 2510-20, 10 hours (choose 3 areas): anthropology, economics, geography, political science, sociology.

CORE PROFESSIONAL EDUCATION..9 hours
Educ. C & I 3010, 3020, 3030.

SPECIALIZED PROFESSIONAL EDUCATION... 8 hours
Educational Psychology 3810 and appropriate methods course for major area.

AREA OF CONCENTRATION....... 67 hours
Audiology and Speech Pathology elective (3050 recommended), Audiology and Speech Pathology 3010, 3710 (or Sp. Ed. 4240), 4930 (or 5950), Special Education 2110, 2120 (or Educ. C & I 3511-15-19), 3333, 4190, 4200, 4210-20-30, 4250, 4280, 4290, 4351, 4371, 4870, 4871, and pre-student teaching seminar, 4100 (1).

TOTAL MINIMUM REQUIRED............ 187 hours

4. Specialization in Multiple Handicapped

GENERAL EDUCATION.............. 75 hours
Communications (9 hours)
English 1010-20 and 1032. (Some students may be required to take English 1019 based on placement scores.)

NOTE: 30 quarter hours are required for graduation and Council on the Education of the Deaf Certification. For Tennessee State Certification for Teaching Non-handicapped Students, additional credit hours are required. Educ. C & I 3511-15-19, 3333, 4190, 4210-20-30, 4250, 4280, 4290, 4351, 4371, 4870, 4871, and pre-student teaching seminar, 4100 (1).

MAJOR AREAS.......................... 30-45 hours

TOTAL MINIMUM REQUIRED............ 194 hours

*Requires admission to Teacher Education Program
Health and Physical Education (10 hours)
School Health 3510; P.E. 3450 and P.E. electives.

Psychology (4 hours)
Psychology 2500.

Humanities (11-12 hours)
English literature; 8 hours electives (choose 2 areas): anthropology, art, history, philosophy, foreign language (above introductory level), religious studies, music, library and information science.

Mathematics (3 hours)
Mathematics 2110.

Natural Science (20 hours)
8-12 hours in biological science (choose one series): Biology 1210-20-30; Botany 1110-20; 8-12 hours in physical science: Physics 1410-20-30, Geology 1510-20, Astronomy 2110-20-30, Chemistry 1110-20-30.

Social Studies (18-20 hours)
History 1510-20 or 2510-20; 10-12 hours (choose 3 areas): anthropology, economics, geography, political science, sociology.

CORE PROFESSIONAL COURSES........9 hours
Educ. C & I 3010, 3020, 3030.

AREA OF CONCENTRATION..........67 hours
Audiology and speech pathology elective (3050 recommended), Audiology and Speech Pathology 3010, 3710 (or Sp. Ed. 4240), 4930 (or 5950), Special Education 2110-20, 3333, 4190, 4200, 4210-20-30, 4250, 4280, 4290, 4351, 4361, 4371, 4870, 4871, and pre-student teaching seminar, Spec. Educ. 4100.

AREA OF SPECIALIZATION...........30 hours
Selected from the following: Spec. Ed. 3210-20-30, 4740, 3310, 3520, 4110-20-30, 4150-80, 4440, 4610-20, 4840, 5400, 5401, 5620, and special education electives.

TOTAL MINIMUM REQUIRED.........161 hours

D. Concentration In Speech and Hearing

GENERAL EDUCATION..................84 hours
Communications (12 hours)
English 1510-20, Speech 2311.

Health and Physical Education (6 hours)
Activities courses recommended plus health and physical education electives (both areas must be represented).

Humanities (16 hours)
English (4 hours from 2000-level literature); electives from two of the following areas: anthropology, art, English (literature), foreign language (above introductory level), history (upper division), Library and Information Science 3510-20-30, music, philosophy, and religious studies.

Mathematics elective (4 hours).

Natural Sciences (16 hours)
8 hours biological sequence; 8 hours physical sequence.

Psychology (4 hours)
Psychology 2500.

Social Studies (20 hours)
History electives (8 hours); 12 hours from three of the following areas: anthropology, economics, geography, political science, sociology.

General Electives (6 hours).

PROFESSIONAL EDUCATION........181 hours

EDUCATION...................................19 hours
Psychology 2520 or 2530, Psychology 3550 or 2540 or Ed. Psych. 2430 or 3610, 11-12 hours upper-division psychology or educational psychology including Psychology 3150. (Ed. Psych. 3110, 4800, 4640 recommended.)

TEACHING AREAS AND ELECTIVES..........69 hours
Special Education 3333, three-hour elective (4110 or 4130 recommended); Audiology and Speech Pathology (or Special Education) 3310, 3710, 4040, 4310, 4400, 4720, 4930, Audiology and Speech Pathology 3010, 3050, 3065, 3200, 4610, 4650; Clinical Practicum Courses (12-15 hours): Audiology and Speech Pathology (or Special Education) 4320-30-40; Special Education 4341, 4342.

TOTAL MINIMUM REQUIRED............181 hours
The following area of endorsement requires completion of requirements of the elementary (K-9) or secondary education curriculum.

E. Concentration in Partially Seeing

VI. Vocational-Technical Education
A. Business Education
See curricula for Secondary Education (7-12) p. 106 for General Education and Professional Education requirements.

63 quarter hours in business and economics to meet five business endorsement areas approved by the department adviser. A statement of requirements and alternative programs may be obtained from the coordinator of business education.

B. Distributive Education
Option 1.

GENERAL EDUCATION..................71-73 hours

Communications (12 hours)
English 1010 or 1011, 1020, 1031 or 1032 or 1033; speech elective.

Health and Physical Education (9 hours)
Physical education or health electives.

Mathematics (3-4 hours)
Mathematics elective.

Humanities (16 hours)
Literature elective (4) plus 12 hours humanities electives.

Natural Science (12 hours)
Natural science electives.

Psychology (7-8 hours)
Psychology 2500, Psychology 2520 or Educ. Psych. 3110.

SOCIAL SCIENCE ELECTIVES (12 hours)

Economics 2110-20-30; plus 3 additional hours in any social studies other than economics.

PROFESSIONAL EDUCATION...........42 hours

SPECIALIZED COURSES...............42 hours
Business Adm. 1110; Office Adm. 4310 or 4320; Accounting 2110; Marketing 3110-20, 4140, 4310, 4150; Finance 3120; Management 3010; Business Law 4110; Voc. Tech. Ed. 4440; Textiles and/or Advertising electives (6 hours).

ELECTIVES..........................23 hours

TOTAL MINIMUM REQUIRED...........183 hours

GENERAL EDUCATION.................67 hours

Communications (12 hours)
English 1010-20 and 1031 or 1033; speech elective.

Health and Physical Education (3 hours)
Physical Educ. or Health elective.

Mathematics (3-4 hours)
Mathematics elective.

Humanities (16 hours)
Literature elective (4); 12 hours humanities electives.

Natural Science (12 hours)
Natural science electives.

Psychology (7-8 hours)
Psychology 2500, 2520, or Educ. Psych. 3100 or 3110.

Social Studies Electives (12 hours)
Economics 2110-20-30; 3 hours elective.

TRAINING SPECIALIST..................45 hours
Business Adm. 1110; Office Adm. 4310 or 4320, Accounting 2110; Marketing 3110-20, 4140, 4310, 4150; Finance 3120; Industrial Management 3010; Business Law 4110; Textiles and/or Advertising elective (6 hours) VTE 4440 (6 hours).

ELECTIVES..........................23 hours

TOTAL MINIMUM REQUIRED...........183 hours

C. Industrial Education
Option 1. Concentration in Trades and Industries

GENERAL EDUCATION..................67 hours

Communications (12 hours)
English (9 hours); speech elective (3 hours).

Health and Physical Education (9 hours)
Health and P.E. electives. (Both areas must be represented.)

Humanities (15 hours)
Literature elective (4 hours); 11 hours from two of the following areas: philosophy, biology, sciences.
anthropology, art or art education, literature, foreign language, music or religious studies. **Mathematics** (3 hours)

Natural Science (12 hours)

Psychology (4 hours)

Psychology 2500.

Social Studies (12 hours)

Two of the following areas must be represented: history, anthropology, economics, geography, political science, sociology.

**PROFESSIONAL EDUCATION** — 12 hours Educ. C & I 3010*, 3020, 3030* (select any two); Special Education 3333; Ed. Psych. 3810.

**PROFESSIONAL INDUSTRIAL EDUCATION** — 42 hours Vo. Tech. Ed. 3830, 3850, 3860, 3870, 4010, 4010, 4810, 4850, 4840, 4850, 4790.

**OCCUPATIONAL COMPETENCY**— 45 hours Vo. Tech. Ed. 3810, 3811, 3812.

**ELECTIVES** — 20 hours

**TOTAL MINIMUM REQUIRED** — 186 hours

Option 2. Concentration in Industrial Arts

**GENERAL EDUCATION** — 67 hours

**Communications** (12 hours)

English (9 hours); speech (3 hours).

**Health and Physical Education** (9 hours)

Health and P. E. electives. (Both areas must be represented.)

**Humanities** (15 hours)

Literature elective (4 hours); art or art education (6 hours); additional hours taken from the following: history (upper division), philosophy, anthropology, foreign language (beyond introductory level), music or religious studies.

**Mathematics** (3 hours)

Natural Science (12 hours)

Psychology (4 hours)

Social Studies (12 hours)

Two areas from the following must be represented: history, anthropology, economics, geography, political science, sociology.

**PROFESSIONAL EDUCATION** — 10 hours Educ. C & I 3010*, 3020, 3030* (select one); Special Education 3333; Ed. Psych. 3000, 3810.

**PROFESSIONAL INDUSTRIAL EDUCATION** — 30 hours Vo. Tech. Ed. 3630, 3650, 3660, 4840, 4810, 4811.

**TEACHING AREAS** — 83 hours

**Communication** (Drilling, Graphic Arts)

Vo. Tech. Ed. 1620, 2620, 3620, 3672, Journalism 3910.

**Power and Transportation** (Prime Movers, Electricity/Electronics)

Vo. Tech. Ed. 1610, 1630, 2611, 2630, 3830.

**Construction and Manufacturing**

Vo. Tech. Ed. 1640, 1661, 2641, 2652, 2860, 3640, 3651, 3662, 4660, 4652, 4670.

**ELECTIVES** — 16 hours

**TOTAL MINIMUM REQUIRED** — 186 hours

**Option 3. Concentration in Industrial Training**

**GENERAL EDUCATION** — 67-68 hours

**Communications** (12 hours)

English (9 hours); speech elective.

**Health and Physical Education** (9 hours)

Health and Safety 3210, First Aid and Emergency Care, electives.

**Humanities** (15 hours)

Two of the following areas must be represented: history, anthropology, economics, geography, political science, sociology.

**SPECIALIZED COGNATE** — 16 hours

Ed. Psych. 2230, Sociology 3610, Cont. & Higher Educ. 3960 and electives taken from an approved list with approval of advisor.

**PROFESSIONAL INDUSTRIAL EDUCATION** — 45 hours

VTE 3830, 3860, 4010, 4820, 4830, 4840, 4850, 4851, 4880, 4815, 4896.

**TECHNICAL COMPETENCY** — 45 hours

VTE 3810, 3811, 3812 or technical courses in an associate of applied science degree.

**ELECTIVES** — 13 hours

**TOTAL MINIMUM REQUIRED** — 186 hours

**D. Agricultural Education**

See page 61 for this program.

**E. Home Economics Education**

See page 164 for this program.

**Departments of Instruction**

**Art and Music Education**


**Art Education (141)**

1511 Field Experiences in Teaching Art (1) Field experiences in which students perform tasks related to teaching and to teacher roles. S/NC. May be repeated for credit.

3100 Introduction to Art in Education (3) Philosophy, developmental theory, goals, and media in relation to art education; directed experiences with selected media; field experience optional; prerequisite to other art education courses; for both majors and non-art education majors.

3110 Crafts in the Elementary School (3) Prereq: 2110. 1 hours and 2 labs.

3120 Learning Through Studio Experiences: Sculpture and Craft Design (3) Selected sculpture and craft design experiences; consideration of (1) subject matter, ideas, and concepts; (2) media and processes; (3) development and sequencing of appropriate learning activities for art program. Prereq: Art Ed. 3100 and at least one course in sculpture or crafts.

3150 Drawing, Painting, and Design Activities in Elementary School (3) Program planning and teaching strategies in elementary art; directed classroom activities with media; lesson planning and field experiences.

3160 Learning Through Studio Experiences: Sculpture and Craft Design (3) Selected sculpture and craft design experiences; consideration of (1) subject matter, ideas, and concepts; (2) media and processes; (3) development and sequencing of appropriate learning activities for art program. Prereq: Art Ed. 3100 and at least one course in sculpture or crafts.

3170 Hands-On Studio Experiences: Ceramics/Tile (3) Program planning and teaching strategies in ceramics and tile; directed classroom activities with media; lesson planning and field experiences.

3180 Learning Through Studio Experiences: Sculpture and Craft Design (3) Selected sculpture and craft design experiences; consideration of (1) subject matter, ideas, and concepts; (2) media and processes; (3) development and sequencing of appropriate learning activities for art program. Prereq: Art Ed. 3100 and at least one course in sculpture or crafts.

3200 Learning Through Studio Experiences: Sculpture and Craft Design (3) Selected sculpture and craft design experiences; consideration of (1) subject matter, ideas, and concepts; (2) media and processes; (3) development and sequencing of appropriate learning activities for art program. Prereq: Art Ed. 3100 and at least one course in sculpture or crafts.

3300 Art and Music Appreciation in the Elementary School (4) For majors in Elementary Education. Media, techniques, and styles of arts and music; methods and materials of teaching art appreciation in the elementary classroom.

3511 Field Experiences in Teaching Art (1) Field experiences in which students perform tasks related to teaching and to teacher roles. S/NC. May be repeated for credit.

4100 Pre-Student Teaching Seminar (1) Orients student teachers to the off-campus centers and the student teaching program; describes the objectives and policies of the student teaching program; meets special needs of student teachers; raises awareness of professional liability. The pre-student teaching seminar must be completed the quarter immediately preceding student teaching. Fall quarter student teachers complete pre-student teaching seminars spring quarter. Prereq: full admission to the Teacher Education Program. Undergraduate credit only. May not be repeated for credit. S/NC only.

4110 Program Development in Art (3) Foundation readings for philosophy; writing program units; analysis of curriculum guides; field experience required (credit optional). Prereq: Art Ed. 3100 and 9 hours art education.

4200 Designing Teaching Aids for Art (3) Resources for art teaching, including selection and use; development of slide-tape presentation and other teaching aids for art teaching. Prereq: Art Ed. 3100 and 9 hours art education.

4300 Learning Through Appreciation and History of Art (3) Review of historical periods; criticism of art; dialogue; application in teaching art. Prereq: Art Ed. 3100.

4350-60-70 Problems in Art Teaching (3, 3, 3) Prereq: Consent of instructor.

4400 Strategies for Teaching Art (3) Readings on teaching art and planning for teaching; development of lesson plans; field experience in classrooms. Prereq: Art Ed. 3100 and 9 hours in Art Education.

4410 The Administration and Organization of Recreational Arts and Crafts Programs (3) Purpose of art activity in recreation; scope of activities; organizational procedures, resources, and coordination required in community arts and crafts programs.

**GRADUATE**

5000 Thesis

5002 Non-Thesis Graduation Completion (3-15)

5210 Organization, Administration, and Supervision of Art in the School Program (3)
Music Education (707)

The curricula in music education provide for five areas of concentration: vocal music (voice principal), vocal music (organ principal), elementary music education (voice principal), elementary music education (piano of organ principal), and instrumental music.

5110 Field Experience in Teaching Music (1) Field experiences in which students perform tasks related to teaching and to teacher roles. S/NC. May be repeated for credit.

2100 Basic Experiences in Classroom Music (3) Vocal, instrumental, rhythmic, listening, music reading, and creative activities. Prereq: Major in elementary or special education. 5 hours.

2110 Experiences in Classroom Music (3) Vocal, instrumental, rhythmic, listening, music reading, and creative activities. Formulas education majors. Prereq: Approval of instructor, one year of music theory, 2 hours and 1 lab.

2411-12-13 Methods, Materials, and Techniques of Singing and Choral Conducting (2, 2, 2) Methods, techniques of conducting, and repair of principal instruments in school instrumental organizations. Emphasis on techniques necessary for basic understanding and effective teaching of the instruments. Practical use of current instructional materials. 2 hours per week.

2421-22-23 Methods, Materials, and Techniques of Woodwind Class Instruction (2, 2, 2) Structure, use, techniques of playing, care, and repair of principal instruments in school instrumental organizations. Emphasis on techniques necessary for basic understanding and effective teaching of the instruments. Practical use of current instructional materials. 2 hours per week.

2431-32 Methods, Materials, and Techniques of Brass Class Instruction (2, 2, 2) Structure, use, techniques of playing, care and repair of principal instruments in school instrumental organizations. Emphasis on techniques necessary for basic understanding and effective teaching of the instruments. Practical use of current instructional materials. 2 hours per week.

3110 Teaching Music in the Primary Grades (3)
Singing, rhythmic, instrument, listening, creative, and music reading activities; evaluation; materials appropriate for Grades K-3. For elementary education majors only. Prereq: 2100 or 2110; Educ. Psych. 2430, upper-division standing.

3120 Teaching Music in the Intermediate and Upper Grades (3) Singing, rhythmic, instrumental, instrument, listening, creative, and music reading activities; evaluation; materials appropriate for grades 4-6. Primarily for elementary education majors. Prereq: Music 2100 or 2110; Educ. Psych. 2430 and upper-division standing.

3130 Teaching Music in the Elementary School (3) Singing, rhythmic, instrumental, listening, creative, and music reading activities; evaluation; materials appropriate for grades K-6. For music education majors only. Prereq: 2110; Educ. Psych. 2430 or 3810, and two years of music theory.

3150 Teaching Music in Junior and Senior High Schools (3) Procedures, techniques, curriculum, scheduling, administration, evaluation, materials and equipment, coordinated activities. Prereq: Two years of music theory; coreq: 3511.

3410 Teaching Instrumental Music (3) Problems and techniques, materials, instrument and equipment selection. Prereq: 6 hours of credit from 2411-21-31 series; coreq: 3410; 3511.

3500 Art and Music Appreciation in the Elementary School (4) For majors in Elementary Education, Media, techniques, and styles of visual arts and music. Methods and materials of teaching arts appreciation in the elementary classroom.

3511 Field Experiences in Teaching Music (1) Field experiences in which students perform tasks related to teaching and to teacher roles. S/NC. May be repeated for credit.

4100 Pre-Student Teaching Seminar (1) Orientation student teachers to the off-campus centers and the student teaching program; describes the objectives and policies of the student teaching program, meets special needs of student teachers; and raises awareness of professional liability. The pre-student teaching seminar must be completed the quarter immediately preceding student teaching. Fall quarter student teachers complete pre-student teaching seminars spring quarter. Prereq: full admission to the Teacher Education Program. Undergraduate credit only. May not be repeated for credit. S/NC only.

4350-60-70 Problems in Music Teaching (3, 3, 3)

4420-30 Choral and Instrumental Conducting (3, 3) Reading, conducting, and interpretation of vocal and instrumental scores suitable for school, church, and community groups. 4420—vocal music, 4430—instrumental music. Prereq: 1010-20 and 3 hours of credit from 2411-12-31 series and two years of music theory. Must be taken in sequence. 2 hours and 1 lab.

4441-42-43 Teaching Class Piano (1, 1, 1) For majors in music, music education, or elementary education Prereq: Approval of instructor.


4460 Marching Band Techniques (3) Functions, organization, and direction of a school marching band. Prereq: Senior standing and approval of instructor; coreq: 3511.

4510 Choral Methods and Materials (3) Organization and administration, teaching techniques, choral literature, and interpretation. Prereq: 1010-20, 4420; one year of voice instruction, two years of music theory. 2 lecture hours and 2 one-hour labs; labs meet with 1010-20.

GRADUATE

5000 Thesis

5002 Non-Thesis Graduation Completion (3-15)

5150 Studies in Secondary School Music (3)

5210 Psychological Foundations in Music (3)

5220 Administration and Supervision of School Music (3)

5230 Comparative Teaching Procedures in Music Education (3)

5240 Evaluation Procedures in Music Education (3)

5250 Role of Music in Education (3)

5260 Music for Early Childhood (3)

5270 Studies of Music for Children in Primary Grades (3)

5320 Advanced Choral Literature and Conducting (3)

5350-60-70 Special Problems in Music Education (3, 3, 3)

5410 Advanced Band Literature and Conducting (3)

5510-20-30 The Talent Education Program of Shinichi Suzuki (2, 2, 2)

5710 Research in Music Education (3)

5810-20-30-40 Seminar in Music and Higher Education (3, 3, 3, 3)

Continuing and Higher Education (267)


Associate Professors: M. C. McNinns, Jr. (Head), Ph.D. Florida State.

Assistant Professor: W. D. Barton, Ed.D. Tennessee.

4390 Introduction to Adult Education (3) Adult education as a profession including diversity and scope of clientele and programs.

4554-55-56 Student Leadership Workshops (1,1,1) Small group and individualized experiences to develop knowledge and skills in leadership roles. Sections are designed for resident assistants, student government leaders, student activities, and other student organizations. Prereq: Consent of instructor. S/NC only.

GRADUATE

5000 Thesis

5002 Non-Thesis Graduation Completion (3-15)

5060 Adult Education: A General Survey (3)

5110 Seminar in College Teaching (3)

5360-70-80 Problems in Continuing and Higher Education (1-3, 1-3, 1-3)

5410 College and University Law—The Legal Environment (3)

5420 College and University Law—Constitutional Rights and Responsibilities of Students (3)

5430 College and University Law—Tort Liability and Risk Management (3)

5440 American Higher Education (3)

5450 Instruction in Higher Education (3)

5460 Adult Development (3)

5470 The Curriculum of Undergraduate Higher Education (3)

5510 Governance of Colleges and Universities (3)

5550 Fiscal Problems in Higher Education (3)

5660 Program Planning in Continuing and Higher Education (3)

5750 Student Personnel in Higher Education (3)

5770 Case Studies in College Student Personnel (3)

5860 The Community-Junior College (3)

5955-65-75 Practicum in Continuing and Higher Education (1-3, 1-3, 1-3)

5960-70-80 Seminar in Continuing and Higher Education (1-3, 1-3, 1-3)

5990 Practicum in College Student Personnel (3)

6450 Advanced Seminar in Program Planning (3)

(See also course listings under the Departments of Curriculum and Instruction, Educational Administration and Supervision, and Educational Psychology and Guidance.)

Curriculum and Instruction

Professors: J. J. Bellon (Head), Ed.D. California (Berkeley); C. B. Allison, Ph.D. Oklahoma; J. E. Alexander, Ed.D.

Associate Professors:

Assistant Professors:

Instructors:
M. A. Blank, M.S. Tennessee; F. L. Hagan, M.S. Tennessee.

(1) Alumni Distinguished Service Professor.

Educational Curriculum and Instruction (301)
Undergraduate programs in the Department of Curriculum and Instruction provide the general professional courses for the preservice education of teachers in elementary and secondary schools.

1410 Efficient Reading and Study Skills (2,1) Improvement of reading comprehension of educational and study skills as they relate to content area subjects. May be repeated for a maximum of 1 hour credit for individual students. S/NC.

1500 Introduction to Early Education (3) (Same as Child and Family Studies 1500.)

2010-20-30 Field Study in Education (3, 3, 3) Problems of teachers in active service in the fields of methods of teaching, curriculum materials, school-community relationships, and school organizations.

3010 History and Philosophy of Education (3) Role of philosophy in education; realism, Neo-Thomism, pragmatism, and other contemporary movements; major ideas, historical roots, and modern applications. Undergraduate credit only.

3020 Principles and Organization of Education (3) Relation to current educational problems and practices; organizational patterns; financing of public education; professionalism of teaching. Undergraduate credit only.

3030 Social Foundations and Curriculum (3) Culture and society and their influences on curriculum; principles, problems, and procedures of subject matter selection, sequence, grade placement, and time allotment; curriculum issues; state curriculum policies and practices. Undergraduate credit only.

3150 Analysis of Teaching (3) Use of interaction analysis of teaching; analysis of classroom behavior techniques. Prereq: Consent of instructor.

3180 Microteaching (3) Emphasis on the development of instructional skills. Students teach a series of lessons to small groups of students in elementary or secondary schools. Lessons are videotaped, and the students, with the aid of the teacher, analyze the teaching behavior on the tape. Prereq: Consent of instructor.

3260 Teaching Language Arts in the Elementary School (3) Methods and materials in teaching writing, spelling, and language. Undergraduate credit only. Should be taken prior to or concurrently with C & I 3290. Prereq: Educ. Psych. 2430 or equivalent, admission to Teacher Education.

3268 Developing Social Studies Content Concepts for Elementary School (3) Study of content of Social Studies Education and methods relevant to elementary social studies. Prereq: Admission to teacher education.

3270 Teaching Social Studies in the Elementary School (3) Methods and materials. Undergraduate credit only. Prereq: Educ. Psych. 2430 or equivalent, admission to Teacher Education.

3290 Teaching Developmental Reading in the Elementary School (3) Beginning course in sequence designed to enable preservice teachers to develop skills and understandings necessary for operation of successful developmental reading program in the elementary school. Prereq: Educ. Psych. 2430 or equivalent and admission to Teacher Education.

3281 Teaching Developmental Reading in the Elementary School (3) Second course in sequence designed to teach content and skills of teaching reading in the elementary school. Prereq: 3290.

3310 History of Education (3)

3320 History of Education in the United States (3)

3520 Books and Related Materials for Young People (3) (Same as Library and Information Science 3520.)

3511 Field Experience in Teaching Elementary (Primary Level K-3) (2) Field experience in which students perform tasks related to teaching and teacher roles. Must be taken prior to 3512 and student teaching. Prereq: Admission to teacher education.

3512 Field Experience in Teaching Elementary (Intermediate Level K-6) (2) Field experience in which students perform tasks related to teaching and teacher roles. Must be taken prior to 3512 and student teaching. Prereq: Admission to Teacher Education.

3513 Field Experience in Teaching Elementary (Elementary School) (3) Field experiences in which students perform tasks related to teaching and teacher roles. Must be taken in sequence with 3511 and 3512. Prereq: Admission to Teacher Education.

3515 Teaching Elementary Mathematics (3) Methods of teaching elementary school mathematics. Prereq: 3510 or equivalent.

3510 Books and Related Materials for Children (3) (Same as Library and Information Science 3510.)

3512 Field Experience in Teaching Elementary (Intermediate Level 4-6) (2) Field experience in which students perform tasks related to teaching and teacher roles. Must be taken prior to 3512 and student teaching. Prereq: Admission to Teacher Education.

3513 Field Experience in Teaching Elementary (Elementary School) (3) Field experiences in which students perform tasks related to teaching and teacher roles. Must be taken in sequence with 3511 and 3512. Prereq: four of the following: C & I 3260, 3270, 3280, 3281, 3350, 3351, 3720; 3512 and Admission to Teacher Education. S/NC.

3520 Books and Related Materials for Young People (3) (Same as Library and Information Science 3520.)

3521-22-23 Field Experiences in Teaching: Secondary (1, 1, 1) Field experiences in which students perform tasks related to teaching and to teacher roles. Must be taken after student teaching and must be taken in sequence. Prereq: 3522 and 3523 require Admission to Teacher Education. S/NC.

3531-32-33 Field Experiences in Teaching: Social Foundations (1, 1, 1) For description, see 3521-22-23. S/NC.

3551 Teaching of Speech and Drama, Grades 7-12 (3) For description, see 3553.

3552 Teaching of Modern Foreign Languages: Oral Communication Skills, Grades 7-12 (3) For description, see Educ. C & I 3563. This course and Educ. C & I 3562 are required for certification in foreign languages. Must be taken concurrently with 3552.

3553 The Teaching of Social Studies, Grades 7-12 (3) Purposes, techniques, and materials of teaching social studies; directed observation in public schools; preparation of teaching plans and materials. Undergraduate credit only. Prereq. Educ. Psych. 2910 or equivalent.

3554 The Teaching of Science, Grades 7-12 (3) For description, see 3553.

3557 Teaching Language, Composition, and Speaking, Grades 7-12 (3) For description, see 3553. Both this course and Educ. C & I 3568 are required for certification in English.

3558 Teaching Reading, Literature, and Listening, Grades 7-12 (3) For description, see 3553. Both this course and Educ. C & I 3568 are required for certification in English.

3719 Developing Science Content Concepts for Elementary School (3) Study of content of science and development of concepts relevant to the elementary science program. Prereq: Admission to teacher education.

3720 Teaching Science in the Elementary School (3) Methods and materials, undergraduate credit only. Prereq: Educ. Psych. 2430 or equivalent, admission to Teacher Education.

3751 Teaching of Mathematics: Numerical and Algebraic Concepts, Grades 7-12 (3) For description, see Educ. C & I 3565. This course and Educ. C & I 3752 are required for certification in mathematics.

3752 Teaching of Mathematics: Geometry and Analysis, Grades 7-12 (3) For description, see Educ. C & I 3565. Both this course and 3751 are required for certification in mathematics.

3853 Teaching Strategies and Issues in Social Studies Education (Grades 7-12) (3) Problems and issues with practical teaching-learning activities in Social Studies Education. Both this course and Education 3653 are required for certification in Social Studies. Prereq: 3553.

4000 Pre-Student Teaching Seminar (1) Orients student teachers to the off-campus centers and the student teaching program; describes the objectives and policies of the student teaching program, meets special needs of student teachers; and raises awareness of professional liability. The pre-student teaching seminar must be completed the quarter immediately preceding student teaching. Fall quarter student teachers complete the pre-student teaching seminars spring quarter. Prereq: full admission to the Teacher Education Program. Undergraduate credit only. May not be repeated for credit.

4090 Special Topics (1-6) Topics to be assigned. May be repeated. Will be offered for letter grade or S/NC.

4091 Independent Study (1-6) Topics to be assigned. May be repeated. Will be offered for letter grade or S/NC.

4092 Supervised Readings (1-6) Topics to be assigned. May be repeated. Will be offered for letter grade or S/NC.

4111 Non-Western Education: Anthropological Approaches (3) (Same as Anthropology 4150.)

4150 School Library Administration (3) (Same as Library and Information Science 4150.)

4210 Curriculum in Elementary School Social Studies (3) Survey of current curriculum approaches and trends in elementary school social studies. Prereq: Teaching experience or student teaching.

4215 Teaching Elementary School Science (3) Methods and materials used in teaching of science in elementary school. Developmental and diagnostic/ corrective programs. Not open to students with recent course or background in teaching of elementary school science.

4216 Teaching Elementary School Mathematics (3) Methods and materials used in teaching of mathematics.
ics in elementary school. Developmental and diagnostic/ corrective programs. Not open to students with recent course or background in teaching of elementary school mathematics.

4217 Teaching Elementary School Language Arts (3) Methods and materials used in teaching of elementary school language arts. Development of functional relationships with other curriculum areas, diagnostic procedures, and corrective work. Not open to students with recent course or background in teaching of elementary school language arts.

4230 Introduction to Diagnosis and Correction of Classroom Arithmetic Difficulties (3) Classroom strategies for diagnosing and correcting arithmetic difficulties, focusing upon content typically presented from grades 1-6. Prereq: 3350 or 5751 or equivalent.

4240 Classroom Instructional Organization (3) Developing understandings and skills relating to grouping, individualization, space utilization, organization, grading, integration, and achieving an effective social environment. For elementary classroom teacher. Prereq: Senior standing.

4250 Initiating the Activities Program (3) Prereq: Educ. Psych. 2430, six quarter hours of methods of teaching in the elementary school, and junior or senior standing.

4280 Orientation to Corrective Practices for Classroom Reading Problems (3) An orientation to the basic practices in diagnosing and correcting reading problems in the elementary classroom. The inexperienced or beginning teacher deals with the collection and interpretation of reading behavior information and the preparation of corrective teaching. A course in the teaching of reading.

4300 Developmental Reading in Secondary School and Community College (3) An introductory course covering approaches and materials for teaching basic reading skills and organizing reading classrooms and/or laboratories at the middle school, secondary school, and community college level.

4303 Language Development of Children: Birth-Preadolescence (3) Indepth view of language development from birth through preadolescence; application of process of language development to instructional programs for early and middle childhood.

4304 Developing Reading Skills in Content Fields (3) Study of approaches and techniques for the teaching of reading skills in content areas of the school program. Emphasis on middle school and secondary school programs.

4400 Problems in Improvement of Instruction (1-3) Special conferences, workshops, or in-service programs designed for improvement of instruction. May be repeated. Maximum credit 9 hours. S/NC.

4410 Educational Sociology (3) (Same as Sociology 4410).

4430 Practicum in Teaching in the Elementary School (3) Practicum experience in elementary school classroom teaching designed for students seeking elementary certification who have obtained degrees in areas other than elementary education and who have obtained degrees and certification in areas other than this. Application must be filed with student teaching office at least one quarter prior to registration for practicum. Prereq: 3250-70-80, 3350, 3720 or equivalent and admission to Teacher Education.

4450 Teaching in Kindergartens: Overview (3) Relationship of kindergarten to total elementary program; goals; historical setting and current developments.

4451 Teaching in Kindergartens: Program Development (3) Curriculum planning and organization; classroom management. Prereq: Admission to Teacher Education.

4452 Elementary School Teaching: Minicourse (1-3) Minicourse focusing on various aspects of teaching in elementary school. Topics vary. Prereq: Student teaching. May be repeated.

4530 Home and School Relations (3) Study of need and techniques which can develop close relationships between the home and school at both elementary and secondary levels. Prereq: Senior standing.

4654 Methods, and Materials in Environmental and Science Education (3) Instructional methods, materials, curricular programs and current issues in environmental and science education for classroom teachers.

4710 Student Teaching, Grades 7-12 (6) Application for student teaching must be filed not later than the final quarter of junior year. Students should hold themselves available to do this work in off-campus centers. Must be taken with 4720. Prereq: 3010-20-30, Educ. Psych. 3810, appropriate special methods courses(s), minimum grade point average of 2.0. Undergraduate credit only. S/NC.

4720 Student Teaching, Grades 7-12 (6) Cooperative planning with other students and teachers; analyses of teaching practices; evaluation of teaching competencies as a result of student teaching. Must be taken with 4710. Undergraduate credit only. S/NC.

4750 Utilization of Instructional Media (3) Introduces the basic communications process, need for instructional media, instructional development, selection and utilization of media and basic software production techniques. (Same as Library and Information Science 4750 and Vocational-Technical Education 4750).

4810 Student Teaching in the Elementary School (9) Application for student teaching must be filed not later than final quarter of junior year. Students should hold themselves available to do this work in off-campus centers. Must be taken with 4850. Prereq: 3270, 3280, 3350, 3720; Educ. Psych. 2430; Library Service 3510; minimum grade point average of 2.0. Undergraduate credit only. S/NC.

4820 Student Teaching in the Elementary School (6) Must be taken with 4810. Undergraduate credit only. S/NC.

4850 Student Teaching in Early Elementary School (K-3) (9) Application filed no later than second quarter of junior year with placement one quarter prior to quarter of graduation, Prereq: Educ. C & I 3260, 3270 or 3720, 3280, 3350, 4450; CFS 3120, 3210. S/NC.

4851 Student Teaching in Early Elementary School (K-3) (9) Application filed no later than second quarter of junior year with placement at least one quarter prior to quarter of graduation. Prereq: Educ. C & I 3260, 3270 or 3720, 3280, 3350, 4450; CFS 3120, 3210. S/NC.

4860 Programmed Learning (3) Theories of learning as related to technology of programmed instruction; techniques and applications of programming. 2 lectures and 1 lab. Prereq: Psychology 3210, Educ. Psych. 3730, or consent of instructor. (Same as Psychology 4860.)

GRADUATE
Graduate instruction in the Department of Curriculum and Instruction provides opportunities to improve the effectiveness of educational service in a number of areas.

5000 Thesis

5002 Non-Thesis Graduation Completion (3-15)

5040 Studies and Theory in Language Development (3)

5070 Seminar in Intercultural Education (3)

5090 Special Topics (1-6)

5091 Independent Study (1-6)

5092 Supervised Readings (1-6)

5100 History of European Education (3)

5112-112 History of American Education (3,3)

5120 Principles of Education (3)

5140 Comparative Philosophies of Education (3)

5141 Pragmatism in Education (3)

5142 The Existential Student (3)

5150-60-70 Seminar (1-3, 1-3, 1-3)

5180-90-5200 Educational Specialist Research and Thesis (3, 3, 3)

5210 Seminar in International Education: Asia and Africa (3)

5211 Instructional Strategies in Elementary School Social Studies (3)

5212 Programs and Materials in Teaching Elementary School Social Studies (3)

5230 Advanced Study and Practicum in Diagnosis and Remediation of Arithmetic Difficulties (3)

5240 Creative Thinking and Expression in Elementary School (3)

5250 Secondary School Instruction (3)

5260 Philosophy of Education (3)

5261 Educational Classics (3)

5270 The Elementary School Curriculum (3)

5280 Teaching Language Arts in the Elementary School (3)

5281 Teaching Social Studies in the Elementary School (3)

5282 Teaching Science in the Elementary School (3)

5283 Programs and Materials in Teaching Elementary Science (3)

5284 Seminar in Teaching Elementary Science (3)

5290 Teaching of Mathematics in the Elementary School (3)

5291 Programs and Materials in Elementary School Language Arts (3)

5292 Seminar in Research and Theory in Teaching Mathematics in the Elementary School (3)

5301 Developmental Reading in the Elementary and Middle School (3)

5302 Psychology of Reading (3)

5303 Methods and Materials for Teaching Critical Reading (3)

5304 Programs and Materials for Reading Instruction (3)

5305 Trends and Issues in Teaching Reading (3)

5306 Teaching Reading to the Linguistically Different Learner (3)

5307 Assessment and Correction of Classroom Language Arts Difficulties (3)

5350 Curriculum Development and Evaluation (3)

5360 Curriculum Development at the Local Level (3-9)

5365 Mathematics Laboratories in Elementary School (K-9) (3)

5379 Diagnosis and Correction of Classroom Reading Problems (3)

5380 Practicum in Diagnosis of Reading Problems (3)

5381 Practicum in Remediation of Reading Problems (3)

5382 Developmental Reading Practicum (3)

5400 Problems in Improvement of Instruction (1-3)

5410 The High School Curriculum (3)

5510 Education in Cultural Perspective (3)

5511 Non-Western Education: Anthropological Approaches (3)

5570 The Junior High and Middle School Curriculum (3)
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<td>6731 Advanced Courses in Curriculum</td>
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<tr>
<td>6830 Studies in Mathematics Education</td>
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<td>6850 Principles of Educational Leadership</td>
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<td>6899 Internship (1-6)</td>
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<td>6900 Advanced Studies in Secondary Science and Environmental Education</td>
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<td>6001 Trans-College Seminar (1)</td>
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<td><strong>See Graduate Catalog for further information.</strong></td>
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<td><strong>Educational Administration and Supervision (292)</strong></td>
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<tr>
<td><strong>Professors:</strong></td>
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<td>Associate Professors:</td>
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<tr>
<td>H. F. Aldmon, Ed.D., Tennessee (Vice Chancellor for Student Affairs); G. W. Harris, Jr., Ph.D., Michigan; P. M. Husen, Ed.D., Stanford.</td>
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<td>Assistant Professors:</td>
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<td>Lecturer:</td>
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<td>5000 Thesis (1-15)</td>
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<td>5100 Internship in Educational Administration (3)</td>
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<td>5180-50-5200 Educational Specialist Research and Thesis (3, 3, 3)</td>
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<td>5220 Philosophy and Theory in Educational Administration (3)</td>
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<td>5230 Seminar in the Behavioral Sciences for Educational Administration (3)</td>
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<td>5290 The Politics of Education (3)</td>
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<td>5310 School Administration and Civil Rights Issues (3)</td>
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<td>5420 District Level Administration (3)</td>
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<td>5430 Building Level Administration (3)</td>
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<tr>
<td>5440 Introduction to Law, Finance, and Business Management at the Building Level (3)</td>
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<td>5450 Organization of the School Program (3)</td>
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<td>5460 Personnel Administration: Local School (3)</td>
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<td>5470 Introduction to School Facility Planning (3)</td>
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<td>5480 Instructional Supervision—Local School (3)</td>
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<td>5530 Introduction to Educational Planning (3)</td>
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<td>5540 Tennessee School Law (3)</td>
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<td>5560 Research for Educational Administrators (3)</td>
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<td>5580 Seminar in Communication Skills for Educational Administrators (3)</td>
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<tr>
<td>5711 Problems in Educational Administration and Supervision: School Operation (3)</td>
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<td>5712 Problems in Educational Administration and Supervision: Higher Education (3)</td>
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<td>5713 Problems in Educational Administration and Supervision: State School Administration (3)</td>
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6870 Advanced Study in School Facility Planning (3)
6900 Special Topics (3)
6981 Specialized Seminar: School Operation (3)
6982 Specialized Seminar: Higher Education (3)
6983 Specialized Seminar: State School Administration (3)
6984 Specialized Seminar: Preparation Programs (3)
6990 Specialized Doctoral Seminar in Politics of Education (3)
6991 Specialized Seminar: Theory (3)
6992 Specialized Seminar: Finance (3)
6994 Specialized Seminar: Business Management (3)
6995 Specialized Seminar: Personnel (3)
6996 Specialized Seminar: School Plant (3)
6997 Specialized Seminar in Organization and Structure (3)
6998 Specialized Seminar: School Law (3)
6999 Specialized Seminar: Supervision (3)

Educational Counseling and Psychology (311)

Professors:

Associate Professors:
T. W. Georghi1, Ed.D. Tennessee; M. A. Hector, Ph.D. Michigan State; L. M. Kindall, Ed.D. Tennessee; A. McIntyre, Ph.D. Yale; N. M. Meaora, Ph.D. Ohio State; M. Peterson1, Ph.D. Ohio State; R. S. Saudargas1, Ph.D. Florida; K. Swander1, Ph.D. Florida.

Assistant Professors:

Part-time,
Adjunct.

2000 Field Experience (1) Field experiences in working with children and youth and their teachers. Students will perform various teaching tasks and be given opportunity to act in teaching roles. May be repeated for a total of 6 credit hours.

2210 Academic Development (3) The development of skills for competence in higher education, including principles of learning, self-knowledge, techniques of behavior change, time use, examination preparation, and independent study. Application of learned skills to current courses.

2220 Personal Development (3) A study of the relationships among self, others, and environment in contemporary culture. Topics include self-awareness, interpersonal skills, environmental awareness, values clarification and socialization.

2230 Career Development (3) Vocational opportunities and aspirations, career planning, decision making, occupational exploration, and vocational development.
Structural objectives, principles of test construction, item analysis, evaluating a test's reliability and validity, interpretation of test scores, relationship between testing and grading.

4700 Assertiveness Training (1) Readings and group exploration of the principles of assertiveness and the application of assertive behavior in a variety of settings.

4760 Advanced Child Study (3) Prereq: 2430 or 3810 or consent of instructor.

4800 Psychology of the Disadvantaged Child (3) Significant behavioral differences and causes; appropriate intervention approaches.

4810 Psychosocial Dimensions of Appalachian People (3) Exploration of psychological, educational, and social factors affecting children in inner-city schools.


4890 Differential Psychology (3) Nature and sources of individual differences in behavioral characteristics, and differences between racial, ethnic, socioeconomic, sex, and other groups.

GRADUATE

5000 Thesis

5002 Non-Thesis Graduation Completion (3-15)

5040 Guidance and Pupil Personnel Services in Education (3)

5050 Children and Adolescents (3)

5060 Group Approaches with Students (3)

5070 Seminar in Elementary School Guidance (3)

5090 Field Work in School Psychology (1-6)

5100 Developmental Psychology (3)

5101 Advanced Psychology of Adolescence (3)

5110 Psychology of Women (3)

5111 Seminar in Current Issues in School Psychology (3)

5120 Seminar in Bias-Free Counseling (3)

5140-50-60 Psycheducational Assessment (3, 3, 3)

5149-59-69 Practicum in School Psychology I (2, 2, 2)

5180-90-200 Educational Specialist Research and Thesis (3, 3, 3)

5210 Interpreting Published Articles: Statistics (3)

5220 Interpreting Published Articles: Research Design (3)

5310 Diagnostic and Corrective Teaching (3)

5319 Field Work in School Psychology: Level I (2, 2, 2)

5320 Advanced Classroom Behavior Modification (3)

5330 Theory and Research in Human Learning (3)

5331 Current Developments in Human Learning (3)

5340 Group Dynamics (3)

5350 Educational Applications of Cognitive Theories (3)

5580 The College Student (3)

5720 Evaluation in Education (3)

5760 Career Development: Theory and Research (3)

5785 Career Development: Program Development Implementation and Evaluation (3)

5790 Career Development: Workshop (1-6)

5840 Student Appraisal (3)

5850-60-70 Special Topics and Problems (1-6, 1-6, 1-6)

5880 Career Development: Occupational and Educational Resources (3)

5885 Career Development: Field Experience (1-3)

5890 Counseling Theories and Techniques (3)

5897 Pre-Practicum (3)

5910-20-30 Problems in Lieu of Thesis (3, 3, 3)

5940 Counseling Practicum (3)

5950-60 Theory and Practice in Consultation (3, 3)

5959-69 Practicum In Consultation (3, 3)

5960 Organization and Administration of Pupil Personnel Programs (3)

6000 Doctoral Research and Dissertation (3-15)

6040 Seminar (1)

6099 Internship (1-6)

6110 Application of Research Design (3)

6120 Application of Experimental Research Design (3)

6319 Field Work in School Psychology: Level II (2)

6550-60-70 Seminar in College Student Personnel (2, 2, 2)

6610-20-30 Seminar in Dissertation Proposal Writing (2, 2, 2)

6750-60-70 Special Topics and Problems (1-6, 1-6, 1-6)

6810 Seminar in Counseling (3)

6840-50-60 Seminar in Professional Issues (1, 1, 1)

6910 Special Topics Seminar (3)

6931-32-33 Practicum in Counseling Psychology (3, 3, 3)

6940 Group Counseling Practicum (3)

6941-42-43 Practicum in Guidance, Counseling, and Personnel Services (3, 3, 3)

6944-45-46 Teaching Practicum (3, 3, 3)

6950 Counseling Supervision (3)

School of Health, Physical Education, and Recreation
Madge M. Phillips, Director

At the undergraduate level, professional preparation programs are offered in health; physical education, dance, and recreation. For information on graduate programs leading to the Master of Science, the Master of Public Health, Educational Specialist, the Doctor of Education, or the Doctor of Philosophy degrees, see the Graduate Catalog.

The School of Health, Physical Education, and Recreation also provides activities programs for all students in physical education and service courses in health and safety.

Health and Safety

Professors:

B. C. Wallace (Acting Chairman), Ed.D. Colorado State College; R. H. Kirk, H.S.D. Indiana.

Associate Professors:

J. D. Gorski, Dr. P.H. UCLA; R. J. Pursley, Ph.D. Iowa; A. F. Thompson, Ph.D. Michigan.

Assistant Professors:


Instructors:

D. S. Holloway, M.S. Tennessee.

Safety (890)

3520 Principles of General Safety (3) Deals with principles, practices and procedures in general safety; covers safety problems in school traffic, recreation, industry, home, and other public areas.


4410 Driver and Traffic Safety Education (5) Preparation of teachers of driver education in schools and colleges. Students are required to teach at least one non-driver. Valid driver's license required. 3 hours and 2 labs.

4412 Cardiopulmonary Resuscitation (2) (Same as School Health 4412.)

4420 Advanced Driver and Traffic Safety Education (5) Development of competency in teaching of driver education through use of simulation, multi-media and multiple-car driving range. Emphasis placed on teaching skills and supervision. Prereq: 4410.

4430 Sports Safety (5) Accident prevention and injury control in sports activities; philosophy of sports safety; human environmental factors and their interrelationships in sports injury and their control; risk-taking and decision making; and contributions of sports medicine to safety. 3 hours of lecture and 2 hours of lab.

4720 Workshop in Safety (3-6) Deals with special safety education problems. For advanced undergraduate students, graduate students, teachers, supervisors, and administrators. May be repeated for credit.

GRADUATE

5000 Thesis

5002 Non-Thesis Graduation Completion (3-15)

5040 Guidance and Pupil Personnel Services in Education (3)

5050 Children and Adolescents (3)

5060 Group Approaches with Students (3)

5070 Seminar in Elementary School Guidance (3)

5090 Field Work in School Psychology (1-6)

5100 Developmental Psychology (3)

5101 Advanced Psychology of Adolescence (3)

5110 Psychology of Women (3)

5111 Seminar in Current Issues in School Psychology (3)

5120 Seminar in Bias-Free Counseling (3)

5140-50-60 Psycheducational Assessment (3, 3, 3)

5149-59-69 Practicum in School Psychology I (2, 2, 2)

5180-90-200 Educational Specialist Research and Thesis (3, 3, 3)

5210 Interpreting Published Articles: Statistics (3)

5220 Interpreting Published Articles: Research Design (3)

5310 Diagnostic and Corrective Teaching (3)

5319 Field Work in School Psychology: Level I (2, 2)

5320 Advanced Classroom Behavior Modification (3)

5330 Theory and Research in Human Learning (3)

5331 Current Developments in Human Learning (3)

5340 Group Dynamics (3)

5350 Educational Applications of Cognitive Theories (3)

5580 The College Student (3)

5720 Evaluation in Education (3)

5760 Career Development: Theory and Research (3)

5785 Career Development: Program Development Implementation and Evaluation (3)
3000 Foundation of Health Science (3) In-depth study of content areas relating to personal health and contemporary health problems, i.e., mood-modifying products, consumer health, international health, personal health practices, reciprocal relationships involving man, disease, and environment.

3210 First Aid and Emergency Care (4) Theory and practice of first aid and emergency care. Instruction in medical self-help. Course leads to Red Cross Certification in Advanced First Aid and Emergency Care. (Applicant must be at least 18 years of age for certification.)

3410 School Health Instruction (3) Selection of health content in school curriculum.

3420 School Health Services (3) Development, maintenance, and protection of health of students including examination, screening, special services, communicable disease control, emergency care, and school health records.

3510 The School in Community Health (3) Role of the teacher in community health education, school's responsibility in promoting healthful living and the place of existing media and agencies in program. Not open to health and physical education majors.

3610 Methods in Elementary Health Instruction (3) Preparation and presentation of health topics. Teaching method is emphasized and student participation strengthened. Required for elementary teachers. Prereq: 1110 or 3510 or Public Health 1110 or Nutrition 1230.

3620 The Teaching of Sex Education (3) Trends, content, methods, and materials.

3650 Methods in Secondary Health Instruction (3) Preparation and presentation of health topics. Teaching method is emphasized and student participation is stressed. Prereq: 3140.

4100 Pre-Student Teaching Seminar (1) Orients student teachers to the off-campus centers and the student teaching program; describes the objectives and policies of the student teaching program; meets special needs of student teachers; and raises awareness of professional liability. The pre-student teaching seminars must be completed the quarter immediately preceding student teaching. Fall quarter student teachers complete preservice teaching seminars spring quarter. Prereq: full admission to the Teacher Education Program. Undergraduate credit only. May not be repeated for credit. S/NC only.

4120 Alchoholism and Alcohol Education (3) Explores problems of alcoholism,Emphasis on factors which make alcoholism a serious health and safety problem. Various types of instructional/educational and internship programs.

4130 Suicide and Suicide Intervention (3) Explores problems of suicide. Emphasis on factors which make suicide a serious health problem. Various types of instructional/educational and internship programs.

4140 Death, Dying and Bereavement (3) Exploration of the cross of death and dying. Education of other programs to mitigate the trauma of death and dying.

4150 Consumer Health and Safety Education (3) Survey of major consumer health and safety problems; selecting, purchasing, and financing of safety and medical services. (Same as Public Health 4410.)

4411 Instructor's Advanced First Aid and Emergency Care (3) Designed to teach First Aid. Satisfactory completion qualifies one for American National Red Cross Certification as an Advanced First Aid for Emergency Care Instructor. Applicant must be at least 21 years of age for certification. Prereq: 3210 or valid Advanced First Aid and Emergency Care Certificate.

4412 Cardiopulmonary Resuscitation (2) Theory and Skills to implement basic cardiac life support following cardiac arrest due to such conditions as heart attack, drowning, electrocution, suffocation, poisoning, drug intoxication, and vehicular and other accidents. Educational and preventive aspects of controlling cardiovascular disease. (Same as Safety 4412.)

4420 Drug Abuse Education (3) Drug abuse problem and suspected causes; pharmacology of drugs and effects on society and methods of drug abuse educa-

4430 Women's Health (3) Study of factors influencing women's health and women as consumers of the nation's health service delivery system.

4500-10-20 Field Practice in Health Education (3-5, 3-5, 3-5) Off-campus health education internship or field practice in educational or other agency with qualified professional.

4710 Workshop in School Health Education (3-6) For advanced students, teachers, school administrators, nurses, and other paramedical school personnel. Lectures, demonstrations, films, field trips, and supervised research in special health problems. May be repeated for credit.

4810-20-30 Problems in School Health Education (1, 1, 1) Individual identification and study of current problems in school health education. Extensive reading of literature required.

GRADUATE

5000 Thesis

5002 Non-Thesis Graduation Completion (3-16)

5010 Problems and Practices in School Health (3)

5020 Teaching of Sex Education and Human Sexuality (3)

5510 Curriculum Construction in School Health Instruction (3)

5520 Evaluation in School Health Instruction (3)

5530 School Health Program Surveys (3)

5620 School Health Administration and Supervision (3)

5630-40 Workshop in School Health Education (3-3)

5720-30-40 Graduate Workshop in Health Education (3-3, 3-3, 3-3)

5810-20-30 Problems in School Health Education (1-3, 1-3, 1-3)

6000 Doctoral Research and Dissertation

6030 Critical Analysis of Writing and Research in Health Education (3)

6050-60 Seminar in Health Education (3, 3)

6210 Health Aspects of Gerontology (3)

6220 Seminar on the Nation's Health (3)

6230 International Health (3)

Physical Education (764)


Instructors: F. K. Whitt, M.A. Appalachian State; C. A. Wren, M.S. Eastern Michigan.

Lecturers: J. A. Richards, M.Ed. Slippery Rock State;

1000 Introduction to Physical Education (2) Special emphasis on theoretical and practical aspects of physical education. Tool health education.

1020 Physical Education: Swimming (2)

1021 Physical Education: Bowling (2)

1022 Physical Education: Basketball (2)

1032 Physical Education: Tennis (2)

1201 Physical Education: Soccer-Speedball (2)

2022 Physical Education: Volleyball (2)

2032 Physical Education: Golf (2)

2040 New Repertory Dance Company (2) Preparation and presentation of public performances. May be repeated. Maximum credit 4 hours. Prereq: Consent of instructor.

2050 New Repertory Dance Company (2) Preparation and presentation of public performances. May be repeated. Maximum credit 4 hours. Prereq: 2040 or consent of instructor.

2060 New Repertory Dance Company (2) Preparation and presentation of public performances. May be repeated. Maximum credit 4 hours. Prereq: 2050 or consent of instructor.

2070 Orientation in Dance—Appreciation (3) Historical, aesthetic principles, and current trends in dance.

3000 Orientation to the National's Health Service Delivery Systems (3) Conduct of program of athletic sports in high schools and colleges.

3010 Elementary Modern Technique (2) Analytical and practical study of modern dance techniques. May be repeated. Maximum credit 6 hours.

3020 Intermediate Modern Technique (2) Theoretical, technical, and improvisational study of modern dance. May be repeated. Maximum credit 6 hours. Prereq: 3010. Available to dance majors and minors or with consent of instructor.

3090 Elementary Modern Technique (2) Instruct and practice in styles and techniques of jazz. May be repeated. Maximum credit 6 hours.

3091 Intermediate Jazz Dance Technique (2) Instruct and practice in styles and techniques of jazz. May be repeated. Maximum credit 6 hours.

3069 Beginning Dance Composition (2) Experience in creative forms of dance. Prereq: 3010.

3061 Dance Composition II (2) Further development of solo and duo compositional skills with particular emphasis on form; content and use of music. Prereq: 3060.

3062 Dance Composition III (2) Study of choreography for small groups. Exploration of costumes, props, stage space, and alternative environments. Prereq: 3051.

3070 Elementary Ballet Techniques (2) Practical and analytical study of classical ballet technique. May be repeated. Maximum credit 6 hours.

3075 Intermediate Ballet Technique (2) Emphasis on styles and methods of intermediate classical ballet technique, basic pointe work and use of petit and grand allegro combinations. Prereq: 3070. Available to dance majors and minors or with consent of instructor. May be repeated. Maximum credit 6 hrs.

3080 Officiating Volleyball (3) Officiating appropriate to volleyball competition. Emphasis on knowledge of rules and officiating mechanics.

3100 Social Dance (2) Instruction, practice, and teaching in basic social dance steps.

3110 Athletic Coaching of Football (2) Fundamentals and coaching techniques. Prereq: Approval of instructor.
3120 Coaching of Basketball (2) Individual and team fundamentals for the high school coach; attention given to conditioning, schedule making, and other business arrangements. Prereq: Approval of instructor.

3130 Athletic Coaching of Track and Field Events (2) Techniques and training procedures. Prereq: Approval of instructor.

3160 Officiating Basketball (3) Officiating appropriateness; rules and officiating mechanics.

3170 Weight Control and Physical Activity (3) Theoretical knowledge of and practical experience in principles and methods of weight control and related physical activity.

3180 Track and Field (2) Methods and practical experience in various events of track and field. Special emphasis on teaching techniques, demonstration, progression, and analysis.

3200 Athletic Coaching of Baseball (2) Individual and team fundamentals for high school and college coach. Prereq: Consent of instructor.

3210 History and Principles of Physical Education (3) Principles from basic sciences of anatomy, bacteriology, chemistry, physiology, psychology, and sociology applied to health, physical education, and athletic coaching.

3220 Physical Fitness Activities (3) Teaching of calisthenics, conditioning activities, and weight training with emphasis on physical fitness concepts involving muscular development of the body.

3240 Team Sports (2) Instruction, practice, and student teaching in selected team sports.

3250 Athletic Training Techniques (3) Theory and practice in the prevention and care of basic athletic injuries.

3260 Practicum for Physical Education Majors (1-10) Observation and limited teaching, coaching, and leadership experiences in physical education programs. Experiences intended to cover the last three-year period of professional preparation. May be repeated; Maximum credit 10 hours. S/NC.

3300 Tap Dance (2) Instruction, practice, and student teaching.

3320 Applied Anatomy and Kinesiology (3) Bones, joints, ligaments, and muscles involved in movements, reaction to joints and muscular mechanism to bodily development and efficiency.

3330 Stunts and Tumbling (2) Instruction and practice; student teaching and lesson planning focused with stress upon safety techniques.

3430 Adapted Physical Education Laboratory (1) Practicum, including student teaching, supplementing 4110.

3450 Physical Education in the Elementary School (3) Movement experiences appropriate for elementary school children; planning and teaching a development program.

3510 Conceptual Bases for Study of Human Movement Behavior (2) Biophysical, percepto-cognitive, and psycho-social forces causing humans to move as they do. Prereq: 1011 or 1012.

3530 The Teaching of Swimming and Lifesaving (2) Certification in ARC Water Safety instructor training or Senior Lifesaving with additional practice in teaching of swimming.


3570 Stagecraft for Dance Production (2) Equipment, light design, properties, sets, and stage management.

4080 History of Dance I (3) A survey of the dance of various societies and cultures from pre-history through the nineteenth century. Senior standing or graduate status required for graduate credit. There is a different level of performance expected of those registered for graduate credit.

4090 History of Dance II (3) A survey of the development of dance in the theatre, recreation, and education during the 20th century. Senior standing or graduate status required for graduate credit. There is a different level of performance expected of those registered for graduate credit.

4100 Pre-Student Teaching Seminar (1) Orients student teachers to the off-campus centers and the student teaching program; describes the objectives and policies of the student teaching program, meets special needs of student teachers, and raises awareness of professional responsibility. The pre-student teaching seminars must be completed the quarter immediately preceding student teaching. Fall quarter student teachers complete pre-student teaching seminars spring quarter. Prereq: full admission to the Teacher Education Program. Undergraduate credit only. May not be repeated for credit. S/N only. (Same as Ed. & C. 4100, Art Ed. 4100, Music Ed. 4100, Ed. & Counseling Psych. 4100, School Health 4100, Public Health 4100, and Bus. Ed. 4100.)

4110 Adapted Physical Education (3) Classification of atypical students who require modified programs in physical education; selection of tests and teaching strategies suitable for required or special physical education classes.

4120 Administration of Physical Education (3) Selection, design, and implementation of programs related to physical education programs in schools. Emphasis placed on human relations approach to problem solving in administration.

4140 Measurement and Evaluation in Physical Education (3) Relationship of measurement and evaluation in physical education. Administration and critique of appropriate measures of physical fitness, sports skills, and knowledge.

4150 Creative Rhythms for Children (3) Methods and materials for grades 1-6. 3 hours and 1 lab.

4160 Athletic Coaching Field Experience (2) Practical experience in coaching and related responsibilities. Must be repeated. Maximum credit 4 hours. Prereq: Approval of instructor.

4230 Program Planning in Physical Education (3) Curriculum building, course construction, and lesson planning for public schools and colleges.

430 Folk and Square Dance (2) Materials and methods for public schools, colleges and recreation centers.

4300 Intermediate Tap Technique (2) Instruction and practice in intermediate tap techniques. Prereq: P.E. 3300 or consent of instructor.

4340-50-60 Specialization Study in Physical Education (1-3) Senior standing or graduate status required for graduate credit.

4410 Wrestling (2) Theoretical and practical work for prospective teaching; emphasis on safety procedures.

4430 Women's Gymnastics (2) Development of skills on balance beam, uneven parallel bars, and side horse vaulting; special emphasis on progression, safety, and teaching techniques. Open to men and women. Prereq: 3330.

4440 Men's Gymnastics (2) Development of skills on pommel horse, parallel bars, and long horse vaulting. Special emphasis placed on safety, progression, and teaching techniques. Open to men and women. Prereq: 4440.

4460 The Coaching and Judging of Women's Gymnastics (3) Appreciation of women's gymnastics according to the rules of the United States Gymnastics Federation. National tests and ratings will be given. Both men and women are encouraged to take this course. Prereq: 2734 or 4440.
**Service Program in Physical Education**

The service program in physical education provides all students a program of physical education planned in accordance with their present and future needs and interests.

- **2701 ARC Advanced Life Saving (2)**
- **2702 ARC Water Safety Instructor Training (2)**
- **2703 ARC Water Safety Instructor for Handicapped (2)**
- **2707 Badminton Elementary (2)**
- **2708 Badminton Intermediate (2)**
- **2711 Ballet Elementary (2)**
- **2712 Ballet Intermediate (2)**
- **2713 Ballet Advanced (2)**
- **2714 Basketball (2)**
- **2715 Bowling Elementary (2)**
- **2716 Bowling Intermediate (2)**
- **2717 Bowling Advanced (2)**
- **2719 Equitation Elementary (2)**
- **2725 Field Hockey (2)**
- **2727 Flag Football (2)**
- **2728 Folk and Square Dance (2)**
- **2730 Foundations of Physical Fitness (Lecture, Lab, Activity) (2)**
- **2731 Golf Elementary (2)**
- **2732 Golf Intermediate (2)**
- **2734 Women's Elementary Gymnastics (Coed) (2)**
- **2735 Women's Intermediate Gymnastics (Coed) (2)**
- **2736 Women's Advanced Gymnastics (Coed) (2)**
- **2737 Handball Elementary (2)**
- **2738 Handball Intermediate (2)**
- **2739 Handball Advanced (2)**
- **2741 Ice Skating Elementary (2)**
- **2742 Ice Skating Intermediate (2)**
- **2743 Ice Skating Advanced (2)**
- **2745 Lacrosse Elementary (2)**
- **2747 Modern Dance Elementary (2)**
- **2748 Modern Dance Intermediate (2)**
- **2749 Modern Dance Advanced (2)**
- **2750 Modern Jazz (2)**
- **2752 Paddleball Elementary (2)**
- **2753 Paddleball Intermediate (2)**
- **2755 Paddletball Elementary (2)**
- **2756 Physical Fitness (Conditioning Program) (2)**
- **2757 Men's Elementary Gymnastics (Coed) (2)**
- **2758 Personal Safety and Defense for Women (2)**
- **2759 Men's Intermediate Gymnastics (Coed) (2)**
- **2760 Soccer (2)**
- **2761 Men's Advanced Gymnastics (Coed) (2)**
- **2762 Social Dance (2)**
- **2764 Softball (2)**
- **2765 Sport in Society (2)**
- **2766 Racquetball Intermediate (2)**
- **2770 Racquetball Advanced (2)**
- **2771 Swimming Elementary (2)**
- **2772 Swimming Elementary II (2)**
- **2773 Swimming Intermediate II (2)**
- **2774 Swimming Advanced (2)**
- **2775 Synchronized Swimming Elementary (2)**
- **2776 Synchronized Swimming Intermediate (2)**
- **2778 Tap Dance Elementary (2)**
- **2779 Tap Dance Intermediate (2)**
- **2781 Tennis Elementary (2)**
- **2782 Tennis Intermediate (2)**
- **2783 Tennis Advanced (2)**
- **2784 Track and Field (2)**
- **2785 Tumbling Elementary (2)**
- **2786 Tumbling Intermediate (2)**
- **2787 Tumbling Advanced (2)**
- **2788 Volleyball Elementary (2)**
- **2789 Volleyball Intermediate (2)**
- **2790 Volleyball Advanced (2)**
- **2791, 2792 Weight Control and Figure Improvement (2)**
- **2794 Weight Training Elementary (2)**
- **2795 Weight Training Intermediate (2)**
- **2797 Wrestling Elementary (2)**
- **2798 Wrestling Intermediate (2)**

**Public Health (839)**

Associate Professors:
- C. B. Hamilton (Acting Chairman), Dr. P.H. Oklahoma; R. J. Pursley, Ph.D. Iowa.
- Assistant Professors:
  - S. F. Spear, Ph.D. Iowa.

**3310 Communicable and Noncommunicable Diseases (3)**

Modern concepts of diseases; etiology of common communicable and chronic disease problems including prevention and control. Prereq: One year of biological science and one course in bacteriology.

**3320 Sanitation (3)**

History of sanitary awakening; disease-producing relationships and controls of water, sewage, refuse, milk, meat and other foods, air, insects, and soil; sanitation of homes, swimming pools, industrial plants, markets, restaurants, camps, and public bathing places; healthful school living as affected by buildings and grounds, lighting, acoustics, thermal control, and safety provisions. Prereq: one year of biological science, one course in microbiology, 2 hours and 1 lab.

**3330 Introduction to Public Health (3)**

Philosophy, organization, and functions of federal, state, and local official and voluntary public health agencies. Includes periodic field trips.
College of Education

spring quarter. Prereq: full admission to the Teacher Education Program. Undergraduate credit only. May not be repeated for credit. S/NC only.

4210 Urban and Industrial Health (3) Health problems created by a burgeoning population and the megalopolis; industrial health problems of concern to management, supervisor, and industrial worker, control of occupational diseases, poisons, accidents, and other conditions incident to industry.

4220 Communications for Better Health (3) Selective study of communications in health enterprise. Consideration in logical progression of the problems of transmitting current and new information to practitioners; communications among members of modern health teams, among health agencies, and use of mass media for transmitting health information.

4410 Consumer Health and Safety Education (3) Survey of major consumer health and safety problems; selecting, purchasing, and financing of safety and medical services. (Same as School Health 4410.)

4700-10-20 Field Practice in Public Health (3, 3, 3) Field practice in public health under supervision of public health profession. S/NC.

5002 Non-Thesis Graduation Completion (3-15)

5010-20-30 Workshop in Public Health (3-4, 3-4, 3-6)

5070-80-90 Field Practice and Seminar in Public Health (3-5, 3-5, 3-5)

5110 Environmental Health (3-5)

5120-30-50 Occupational Health and Safety (3, 3, 3, 5)

5150 Industrial Toxicology (3)

5220 Health and Sickness (3)

5410 Epidemiology (3)

5420 Administration of Public Health (3)

5430 Vital and Medical Statistics (4)

5440 Methods and Materials in Public Health Education (4)

5540 Factors in Problem Solving for Community Health (3)

5550 The Public Health Educator in Community Organization and Development (4)

5560 Functions and Roles of the Public Health Educator (3)

5580 Physical Activity and Health (5)

5705 Advanced Professional Health Education: Health Planning I (3-5)

5710 Advanced Professional Health Education: Health Planning II (3-5)

5715 Advanced Professional Health Education: Health Planning III (3-5)

5730 Dental Health Education (3-5)

5735 Emergency Medical Services (3-5)

5745 Family Health Unit (3-5)

5750 Health and Medical Care Legislation and Law (3-5)

5755 Health Facilities Administration (3-5)

5760 Health Services Administration (3-5)

5785 Occupational Health Unit (3-5)

5790 Self-Care Unit (3-5)

5795 The Training of Paramedical Personnel (3-5)

5840-50-60 Problems in Public Health Education (1-8, 1-8, 1-8)

6000 Doctoral Research and Dissertation

6210 Health Aspects of Gerontology (3)

6220 Seminar on the Nation's Health (3)

6230 International Health (3)

Recreation (853)

Professor: M. L. Peters (Chairman), Ph.D. Illinois.

Assistant Professor: M. D. Blanton, Re.D. Indiana; K. L. Krick, Re.D. Indiana.

1000-2000-3000 Field Practice (2-3, 2-3, 2-3) Supervised practice in approved agency offering leisure services. Each hour's credit requires 25 hours of work in field agency. For recreation students only. Must be taken in sequence.

1100 Orientation to Recreation Profession (3) Overview of types, functions, and interrelationships of delivery systems for recreation and park services.

3100 Recreation Leadership Procedures (3) Principles and practices of recreation leadership; techniques and methods of working with individuals and groups in leisure activities. Two one-hour lectures and one two-hour lab each week. Prereq: 1000, 1100, and passing score on CAT.

3140 Philosophical Foundations of Recreation (3) Examination of recreation as personal experience; theories of play; philosophies of leisure and relationship to economy, ecology, health, government, culture, and self-realization; history of recreation movement.

3200 Planning Leisure Programs (3) Principles and methods employed in planning effective and well-balanced leisure time programs for various groups in various settings. Prereq: 2000, 3100.

3320 Organization, Supervision, and Management of Recreation Programs (3) Management, organization and supervision of recreation programs and facilities. Prereq: 2000 and 3200.

3501 Outdoor Recreation Skills and Techniques I (3) Fundamentals necessary for safe participation in outdoor recreation activities such as sailing, skin diving, caving, orienteering, and backpacking. Emphasis: enjoyment of natural environment without disturbance or destruction of plant and animal habitats. Prereq: Consent of instructor.

3502 Outdoor Recreation Skills and Techniques II (3) Instruction in safe conduct of outdoor recreational activities such as sailing, skin diving, camping, orienteering, and water transportation without disturbance of environment. Provision of outdoor recreation experience for the handicapped. Two 1-hour lectures/dissertation and one 2-hour lab each week. Prereq: Consent of instructor.

3710 Camp Counseling (3) History and philosophy of camping movement, counselor leadership and program planning and outdoor living skills.

3860 Social Recreation (3) Principles and practice of social recreation suitable for all age groups and appropriate to a variety of settings. Content includes methods of conducting low-organized and social-interaction activities for special events and programs.


4130 Recreation Administration (3) Introduction to recreation administration, including planning, personnel, areas and facilities, program services, finances, and public relations. Prereq: 3140, 3200, 3860 or consent of instructor.

4200 Survey of Recreation for Special Populations (3) Responsibility of recreation profession to minority groups, whose leisure opportunities and needs may require special servicing. Prereq: 3140, 3200, 3860 or consent of instructor.

4310 Camp Administration (3) Program planning and organization, personnel management, camp site development and maintenance and camp operation for administrators and supervisors of organized camps.

4500 Specialized Study in a Selected Area of Recreation (1-9) Comprehensive study in a selected specialized area within the broad field of recreation. For recreation studies only. May be taken for any credit up to 9 hours. May be repeated for a maximum credit of 9 hours with consent of the division. Prereq: Consent of instructor.

GRADUATE

5000 Thesis (9)

5002 Non-Thesis Graduation Completion (3-15)

5130 Interpretation of Leisure (3)

5140 Leisure Service Delivery Systems (3)

5150 Current Issues in Recreation (3)

5240 Therapeutic Recreation (3)

5250 Implementations of Recreation Services for the Ill or Disabled (3)

5260 Leisure and Mental Health (3)

5300 Seminar in Recreation (1)

5340 Administration of Recreation Funds (3)

5350 Organizational Policies for Recreation (3)

5360 Management and Operation of Recreation Facilities (3)

5440 Problems and Projects in Recreation (1-9)

5450 Specialized Study in Recreation (1-9)

Special Education and Rehabilitation (933)


The undergraduate programs in the Department of Special Education and Rehabilitation provide the general professional courses for the preservice education of candidates for certification in meeting the
needs of exceptional children. Facilities are available for continuous observation and participation in direct relationships with exceptional children who are hospitalized, homebound, in residential schools, special classes, or regular classes.

Course sequences are planned in the areas of (1) General Special Education; (2) the Hearing Impaired; (3) Speech and Hearing; (4) Rehabilitation Counselor Education.

It is possible to plan a program which will lead to certification in more than one area. For planning a program, the student must consult with an advisor in the chosen area.

General Special Education:

3333, 4110, 4120, 4130, 4150, 4351, 4361, 4440, 4520, 4610, 4740, 4880, 4881, 4882, 5260, 5620.

The Hearing Impaired:

2110, 2120, 3333, 4190, 4200, 4210, 4220, 4230, 4250, 4280, 4290, 4351, 4361, 4371, 4740, 4870, 4871, 4930, 5220, 5240, 5280, 5310, 5320, 5330, 5820.

Speech and Hearing:

3310, 3333, 3710, 4030, 4040, 4310, 4320, 4330, 4340, 4351, 4342, 4420, 4720, 4930. Other courses from Audiology and Speech Pathology: 3010, 3050, 3065, 3200, 4610, 4650.

Rehabilitation Counselor Education:

5100, 5110, 5115, 5120, 5130, 5140, 5145, 5146, 5147, 5150, 5160, 5170, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5771.

2110 Field Experience (1) Students observe, tutor, and perform teacher-related tasks in special education programs. S/NC.

2120 Field Experience (3) Students observe, tutor, and perform teacher-related tasks in non-special education programs. S/NC.

3310 Articulation Disorders (4) (Same as Audiology and Speech Pathology 3310.)

3332 Education of the Exceptional Child (3) Principles, characteristics, and special needs; local and state programs for diagnosis and care; educational provisions in regular or special classes; home teaching; social and vocational guidance.

3710 Audiology I (3) (Same as Audiology and Speech Pathology 3710.)

4000 Rehabilitation Practicum (3) Evaluation of client data in predicting rehabilitation prognosis. Prereq: 4230.

4020 The Professional Aspects of Speech/Language/Hearing Programs in the Schools (3) Comprehensive study of the organization, administration of school programs. Also, other settings, hospitals, institutions, private practice, professional certification levels, legislation, careers.

4040 Appraisal of Speech and Language Disorders (4) (Same as Audiology and Speech Pathology 4040.)

4100 Pre-Student Teaching Seminar for Teachers in Special Education (1) A seminar to provide students with additional information about student teaching. Prereq: Consent of instructor for Tennessee certification in Special Education.

4110 The Nature and Concept of Mental Retardation (3) Identification, description, and study.

4120 Education of the Mentally Retarded Child (3) Philosophy and rationale underlying the teaching and guidance of the mentally retarded; methods and materials in special and regular classes. Prereq. or coreq: 4110.

4130 Education of the Brain-Injured Child (3) Nature of brain-injured child; skills for identifying educational, physical, and emotional characteristics; special educational techniques.

4150 Education of Children with Crippling and Special Health Conditions (3) Medical and educational characteristics of children with crippling and special health conditions; appropriate educational modifications and associated services. Prerequisite/Corequisite 3333 or consent of instructor.

4160 Education of Partially Sighted Children (3) Curricular adjustments and materials; home visits for parents; cooperation in medical care and special needs.

4190 Speech Development of the Hearing Impaired (3) Anatomy and physiology of speech system. Relationship of hearing to speech development. Theories and techniques of speech development and improvement for hearing impaired children. Prereq: Speech 3050. (Same as Audiology and Speech Pathology 4190.)

4200 Practicum in Speech Development of Hearing Impaired (3) Application of theories and techniques of speech development and improvement with hearing impaired children. Prereq: Speech 3100 and consent of instructor. (Same as Audiology and Speech Pathology 4200.)

4210 Language Development of Hearing Impaired (3) Systems by which formal language is presented. (Same as Audiology and Speech Pathology 4210.)

4220 Language Development for the Hearing Impaired (3, 3) Systems by which formal language is presented. Prereq: 4210 or consent of instructor. (Same as Audiology and Speech Pathology 4220.)

4230 Communication Processes for the Hearing Impaired (3, 3) Intermediate courses in manual communications skills and techniques with emphasis on vocabulary development with receptive and expressive fluency. Prereq. Spec. Ed. 4230 or consent of instructor.

4240 Nature of Hearing Impairments (3) Basic principles of audiology: anatomy and physiology of hearing; nature and causes of hearing loss; methods and instrumentation for assessment of hearing level; interpretation of audiograms; selection and use of hearing aids; relation of audiological services to medical and other rehabilitative disciplines. Observations and practicum.

4241 Communication Processes for the Hearing Impaired II (3) Intermediate courses in manual communications skills and techniques with emphasis on vocabulary development with receptive and expressive fluency. Prereq. Spec. Ed. 4230 or consent of instructor.

4250 Introduction to the Psychology and Education of the Hearing Impaired (3) Offered for the first time. An attempt planning to enter field of teaching the deaf and hard-of-hearing. Review of history of education of the deaf. Research studies relating to psychology, social adjustment, and learning of the deaf. Survey of professional literature in area of deaf and hard-of-hearing. (Same as Audiology and Speech Pathology 4250.)

4280 Curriculum Development in Elementary and Secondary Schools for the Hearing Impaired (3) Adaptation of curriculum development and methods in public school education to meet needs of deaf and hard-of-hearing students in residential and integrated settings.

4290 The Teaching of Reading to Hearing Impaired Children (3) Readiness activities, developmental approaches, theories, and specialized materials for curriculum in teaching reading.

4310 Stuttering (3) (Same as Audiology and Speech Pathology 4310.)

4320 Introduction to Clinical Practice in Speech Pathology (3) (Same as Audiology and Speech Pathology 4320.)

4330 Clinical Practice in Speech Pathology (1-6) (Same as Audiology and Speech Pathology 4330.)

4340 Clinical Practice in Speech Pathology (1-6) (Same as Audiology and Speech Pathology 4340.)

4350-61-71 Practicum in Special Education (3, 3, 3) Prereq: Consent of instructor.

4350-60-70 Problems in the Education of Exceptional Children (3, 3, 3) Prereq. Consent of instructor.

4351-61-71 Practicum in Special Education (3, 3, 3) Students prepare and deliver units of instruction in special education programs. S/NC.

4400 Voice Disorders (4) (Same as Audiology and Speech Pathology 4400.)

4440 High School Program for the Mentally Retarded (3) Trends, issues, and research relating to core and work study programs.

4520 Language—Speech Handicapped Child in the Classroom (3) Recognition, understanding, observation of communication disorders; information on referral procedures, agencies, legislation; incorporation of speech-impaired children into regular curriculum. For students not majoring in speech—language pathology or audiology.

4610 Nature and Characteristics of Learning and Behavior Disorders (3) Forms of academic and socially disturbing behavior, degrees of severity, possible causes, and relationships to each other. Relationships with other aspects of learning and behavior. Developmental factors interpreted through behavioral and psychodynamic theory as well as practical situations in which the specific educational disorders may occur.

4620 Education of the Emotionally Disturbed Child (3) Managing behaviors, models for instruction, teaching techniques and materials, and teacher-pupil-family interpersonal relationships as basic to academic achievement for the pupil. Prereq: 4610.

4630 Practicum in Residential Settings Serving Children with Disturbing Behavior (3) Practice in scientifically identifying, observing, and recording disturbing behaviors; initiating behavior changes regarding academic and social behaviors; to performing in a capacity within a residential classroom; take in part in discussion and evaluation of relevant academic, curriculum, and reinforcement schedules. Prereq: 4610 and 4620 or consent of instructor.

4640 Practicum in Public School Systems Serving Children with Learning and Behavior Problems (6) Academic tutoring in a teacher/aide capacity within regular classrooms. Particular emphasis and practice in individualizing instruction for low-achievement behavior problem children within the regular classroom setting. Discussion and evaluation of relevant methods and materials understand each teaching situation. Prereq. 4610 and 4620 or consent of instructor.

4720 Audiology II (4) (Same as Audiology and Speech Pathology 4720.)

4740 Evaluating Exceptional Students (3) Explores mandates relative to evaluation; examines theoretical considerations and methods of evaluating exceptional students; introduces basic statistical concepts relative to norm and criterion-referenced testing. Prereq. Sp. Ed. & Rheh. 3333 or consent of instructor.

4810 Student Teaching Mental Retardation (3) Prereq: Major in education of mental retardation. S/NC.

4811 Student Teaching Mental Retardation (9) Prereq: Major in education of mental retardation. S/NC.

4840 Educational Problems of the Cerebral Palsied Child at Home and School (3) Physical, social, and educational needs of cerebral palsied; educational techniques, related services.

4850 Eye Problems Encountered by the Teacher (3) Eye anatomy and hygiene; common diseases and defects; testing and treatment; educational adjustments for specific eye conditions; related services resources.

4870 Student Teaching with Hearing Impaired Children (9) Supervised teaching in preschool, day school, and residential pupils. S/NC.
than January 1 of the academic year preceding the Application for student teaching must be filed not later B. J. Brown (Coordinator Bus. Ed.), Ed.D.

4882 Student Teaching in Special Education (1-6) Application for student teaching must be filed not later than January 1 of the academic year preceding the actual experience. Prereq: 4110, 4120, 4130, 4150, 4531, 4531, 4740, S/NC.

4921 Student Teaching in Crippling and Special Health Conditions (3-15) Observation and supervised practicum in home, hospital, and classroom. S/NC.

4922 Student Teaching of theEducable Mentally Retarded (3) Observation and supervised practicum. S/NC.

4923 Student Teaching of the Partially Seeing (3) Observation and supervised practicum in special and regular classes. S/NC.

4924 Student Teaching of the Emotionally Disturbed (3) Individual tutoring and classroom observation and teaching. Prereq. or coreq. Educ. C 14720 or 4820. S/NC.

4930 Aural Rehabilitation: Speechreading and Auditory Training (3) (Same as Audiology and Speech Pathology 4930).

4940 Introduction to the Verbo-Tonal System (4) (Same as Audiology and Speech Pathology 4940).

GRADUATE

5000 Thesis

5002 Non-Thesis Graduation Completion (3-15)

5040 Advanced Clinical Practice in Audiology (1-6)

5100 Orientation to Rehabilitation (3)

5110 Medical Aspects of Rehabilitation Counseling (3)

5111 Psychology of Mental Retardation (3)

5112 Psychology of the Severely Mentally Retarded (3)

5113 Advanced Curriculum for the Mentally Retarded (3)

5115 Case and Management in Rehabilitation (3)

5120 Psycho-Social Aspects of Disability (3)

5121 Job Development and Placement in Rehabilitation (3)

5130-40 Seminar in Rehabilitation (3, 3)

5141 Diagnostic Vocational Evaluation in Rehabilitation (3)

5142 Prognostic Vocational Evaluation in Rehabilitation (3)

5143 Interpretation of Vocational Evaluation Data in Rehabilitation (3)

5144 Development and Supervision of Client Evaluation Programs (3)

5145-46-47 Practicum in Rehabilitation (3, 3, 3)

5150-60 Internship in Rehabilitation (3, 9)

5170 Systematic Human Relations Training I (3)

5180 Approaches to Rehabilitation Counseling (3)

5220 Linguistics in the Education of the Hearing Impaired (3)

5240 Seminar in Language Remediation for the Hearing Impaired (3)

5260 Education of Gifted Children (3)

5280 Seminar on Educational Implications of Language Deficiency (3)

5310-20-30 Manual Communication (2, 2, 2)

5380 Cerebral Palsy (3)

5390 Cleft Palate (3)

5400 Assessment and Remediation of Learning Disabilities (3)

5401 Prescriptive Teaching for Children with Learning Disabilities (3)

5402 The Exceptional Child in the Regular Classroom (3)

5403 Resource Teachers for the Handicapped (3)

5410 Instructional Media for the Handicapped: Design, Production, and Evaluation of Prototypical Curriculum Materials for the Deaf (9)

5450-60-70 Experience in Teaching and Supervision of Exceptional Children (1-6, 1-6, 1-6)

5490 Educational Vocational Guidance of the Deaf and Hard-Of-Hearing (3)

5510-20-30 Administrative Practice in Vocational Education of Institutional Care of Children (3, 3, 3)

5540 Seminar in Language Pathology (3)

5550-60-70 Problems in the Education of Exceptional Children (3, 3, 3)

5555-65-75 Special Topics (1-3, 1-3, 1-3)

5620 Counseling Parents of Exceptional Children (3)

5630 Psychology of the Exceptional Child (3)

5700 Evaluation and Mobilization of Community Resources (3)

5710 Medical Aspects of Disability I (3)

5720 Medical Aspects of Disability II (3)

5730 Vocational Assessment in Disability Evaluation (3)

5740 Disability and Work in Society (3)

5750 Principles and Problems of Disability Evaluation (3)

5760 Seminar: Functional Capability Assessment (3)

5770-71 Current Problems in Disability Claims Evaluation (1-3, 1-3, 3)

5780 Career Development: Workshop (1-6)

5800 Curriculum Development Applied to Programs for the Hearing Impaired (3)

5830 Seminar: Issues and Theories in the Education of the Exceptional Child (3)

5910-20-30 Problems in Lieu of Thesis (3, 3, 3)

5970 Juvenile Delinquency and the School (3)

Vocational-Technical Education (1988)

Professors: J. M. Matthews (Head), Ph.D. Arizona State; R. J. Woodin (Emeritus), Ph.D. Ohio State; W. A. Cameron, Ph.D. Ohio State; G. C. Petty, Ph.D. Missouri (Emeritus) (Coordinator H. E.); B. J. Radcliff, M.S. West Virginia; J. A. Wagoner, M.S. Oklahoma; G. A. Wagoner (Emeritus), M.S. Indiana; H. E. Wiegers, Jr., Ed.D. Missouri.


GENERAL

2010-20-30 Field Experience in Vocational Education (1,1,1) Field experience in public school programs in agriculture, business, distributive, home economics, trades and industries, and industrial arts education. S/NC only.

3000 Introduction to Vocational Education (1) Introductory and exploratory experiences concerned with teaching careers in all areas of vocational education. Includes visitation within a vocational setting.

4010 Development and Utilization of Advisory Committees (3) Philosophy and rationale for use of craft advisory committees. Their selection, organization, implementation and utilization.

4140 Individual Study in Vocational-Technical Education (3) Individual study must be approved by supervising instructor and the service area coordinator or department head. Approval form must be filed in the Office of the Department Head. May be repeated.

4750 Utilization of Instructional Media (3) (Same as Educ. C 1 4750 and Information Science 4750.)

GRADUATE

5000 Thesis

5002 Non-Thesis Graduation Completion (3-15)

5050 Problems in Lieu of Thesis (3)

5010 History and Organization of Vocational-Technical Education (3)

5015 Issues and Trends in Vocational-Technical Education (3)

5020 Placement, Follow-Up, and Evaluation Procedures in Occupational Education (3)

5030 Organization and Operation of Area Vocational-Technical Schools (3)

5040 Guidance and Pupil Personnel Services in Education (3)

5050 Supervision of Vocational-Technical Education (3)

5055 Vocational School Administration and Management (3)

5070 Competency Based Vocational Education (3)

5080 Continuing Education in Vocational-Technical Education (3)

5100 Occupational Program Development for Disadvantaged Persons (3)

5110 Principles and Objectives of Vocational-Technical Education (3)

5130-31-32 Problems in Vocational-Technical Education (1-3, 1-4, 1-4)

5140 Individual Study in Vocational-Technical Education (1-3)

5150 Microcomputer Operations and Educational Applications (3)

5155 Software Design for Microcomputers in Education (3)

5180-50-5200 Educational Specialists Research and Thesis (3, 3, 3)
6000 Doctoral Research and Dissertation

6010 Curriculum Planning in Vocational-Technical Education (3)

6020 Program Planning and Development in Vocational-Technical Education (3)

Evaluation of Vocational-Technical Education Programs (3)

6040 Seminar in Vocational-Technical Education (1, 1, 1)

6050 Administration of Vocational-Technical Education (3)

6111-12-13 Internship in Vocational-Technical Education (3, 3, 3)

Agricultural Education (056)

3450 Agricultural Experience and Future Farmers of America Programs (3) Prereq: Consent of instructor.

3460 Methods in Teaching Agriculture (3) Prereq: Consent of instructor.

3470 Program Development and Adult Education in Agriculture (3) Prereq: Consent of instructor.

4110 Organizing and Teaching Agricultural Mechanics (3) Methods of teaching agricultural mechanics to vocational agricultural students. Emphasis on special competencies needed for planning, conducting, and evaluating agricultural mechanics programs. Prereq: Agriculture 1120, Agricultural Mechanization 5110, and/or consent of instructor. 2 hours and 2 labs.

4230-31-32 Problems in Agribusiness Education (1-6, 1-6, 1-6) Total not more than 9 hours.

4240-41-42 Seminar in Agricultural Education (1, 1, 1) Prereq: 4350 or consent of department head.

4350-60 Student Teaching in Agricultural Education (9-4) Offered in classrooms. Applications must be filled not later than final quarter of junior year. Courses must be taken concurrently. Prereq: 4350, 4360, 4370, consent of instructor. Undergraduate credit only. S/NC.

GRADUATE

5120 Supervision of Student Teaching in Agricultural Education (3)

5220 Teaching Agricultural Mechanization in Vocational Agriculture (3)

5230-31-32 Special Problems in Agricultural Education (3, 3, 3)

5240 Current Literature and Agricultural Education (1-3)

5250-51 Agricultural Education in Off-Farm Agricultural Occupation (3, 3)

5260 Agricultural Education for First-Year Teachers (3)

5270 Adult Education in Agriculture (3)

5290 Supervised Occupational Experience in Agriculture (3)

Business Education (207)

4300 Principles of Business Education (3) Historical background and present status; principles of vocational education applied to business education; guidance activities of business teachers.

4310 Pre-Student Teaching Seminar (1) Orients student teachers to the off-campus center and the student teaching program; describes the objectives and policies of the student teaching program; meets special needs of student teachers; and raises awareness of professional liability. The pre-student teaching seminars must be completed the quarter immediately preceding student teaching. Fall quarter student teachers complete a pre-student teaching seminar spring quarter. Prereq: full admission to the Teacher Education Program. Undergraduate credit only. May be repeated up to 4 times.

4320 Teaching Basic Business Subjects (2) Materials, evaluation procedures, and recent research in subject fields.

4330 Teaching Typewriting and Word Processing (2) Materials, methods, evaluation procedures, and recent research in subject fields.

4340 Teaching Shorthand (2) Materials, methods, evaluation procedures, and recent research in subject fields.

4350 Teaching Accounting and Data Processing (2) Materials, methods, evaluation procedures, and recent research in subject fields.

4370 Seminar in Business Education (3) Current business education problems, viewpoints of leaders in field, special attention to problems of those enrolled. S/NC only.

4390 Special Topics (1-8) Topics to be assigned. May be repeated for a maximum of 9 hours total. May be offered for letter grade or S/NC.

GRADUATE

5305 Methods and Materials for VOE Programs (3)

5306 Organization and Management of VOE Programs (3)

5307 Measurement in Business Education (3)

5308 Curriculum in Business Education (3)

5309 Evaluation of Research in Business Education (3)

5310 Graduate Seminar in Business Education (3)

5311-12 Special Topics in Business Education (1, 1) Prereq: 4350 or consent of department head.

5313-14-15 Practicum in Business Education (2, 2, 2)

5320 Improvement of Instruction in Basic Business Courses (3)

5330 Improvement of Instruction in Typewriting and Clerical Programs (3)

5340 Improvement of Instruction in Shorthand/Secretarial Subjects (3)

5350 Improvement of Instruction in Accounting and Data Processing Programs (3)

5360 Improvement of Instruction in Accounting and Data Processing Programs (3)

5380-85 Problems and Projects in Business Education (3, 3)

5390 Problems in Business Education (1-9)

6300-10-20 Current Issues in Business Education (3, 3, 3)

6330-40 Advanced Studies in Business Education (3, 3)

6350 Advanced Studies in Business Education (3)

6360 Higher Education for Business (3)

Distributive Education (273)

4410 Student Teaching in Distributive Education (6) Full-time, supervised experience in classroom teaching, coordination, club work, and adult education. Prereq: 4460, 4470; Ed. C&I 3010-20 or 33 or VTE 4300; Educ. Psych. 3810; 4140 or equivalent. Undergraduate credit only. S/NC.

4420 School and Community Relationships for the Teacher Coordinator (6) Content dependent upon teaching assignment; human relations evolving from school, parent, business, and other community contacts. Must be taken with 4410. Undergraduate credit only. S/NC.

4430-31-32 Problems in Distributive Education (1-3, 1-3, 1-3) Selected research problems in teaching and coordinating distributive education programs. May be repeated. Maximum credit 6 hours each.

4440 Supervised Distributive Experience (3) Minimum 200 hours experience for each 3 credit hours in approved distributive business; concurrent analytic project. May be repeated.

4450 Areas of Distribution (3) Marketing, production, business administration, bookkeeping, sales, and distribution as these areas affect the distributive education curriculum in secondary and post secondary programs.

4460 Organization and Operation of Distributive Education Programs (3) Background and development needs, federal and state legislation; curriculum implications; establishing, evaluating, reporting, and improving the programs.

4470 Methods and Materials in Distributive Education (3) Prereq: 4460 or consent of instructor.

4480 Coordination Techniques in Distributive Education (3) Selecting training agencies; job analysis; selecting and briefing the training supervisors; advisory committees; adult education and other community services. Prereq: 4460 and 4470.

GRADUATE

5410 Administration and Supervision of Distributive Education (3)

5416-26-36 Problems in Distributive Education: Retailing (3, 3, 3)

5420 Organizing and Teaching Adult Distributive Education (3)

5430-31-32 Special Problems in Distributive Education (3, 3, 3)

Home Economics Education (490)

2240 Introduction to Teaching Vocational Home Economics (3) Introductory and exploratory experiences concerned with a teaching career in vocational home economics. Includes observation and participation within various educational and vocational settings.

3240 Strategies of Teaching Home Economics (4) Teaching strategies, methods, techniques, and use of media. Field experience included. Prereq: 2240.

4240 Curriculum Development in Vocational Home Economics (4) Planning of curriculum and design of instruction for the classroom. Prereq: 2240, 3240. To be scheduled one of the two quarters immediately preceding student teaching.

4310 Student Teaching (6) Underlying philosophy, techniques, and materials related to school program and community. S/NC.

4400 Teaching in Community-Based Home Economics Programs (4) Planning, implementing, and improving community-based home economics education programs-methods, curriculum, delivery systems, evaluation. Includes a field experience. Senior standing required.

4500 Field Experience in Home Economics Community-Based Programs (6) Supervised field experience in appropriate, related, community-based programs. Includes seminar. S/NC.

4509 Field Experience in Home Economics Related Occupations (4) Supervised field experience and seminar in teaching of occupations which utilize home economics skills and knowledge. Prereq: Consent of instructor. S/NC. May be repeated.

4610 Student Teaching (9) Open to seniors or graduate students who have successfully completed one year's study at The University of Tennessee. Off-campus teaching centers (minimum of eight weeks). Prereq: 2240, 3240, 4240; consent: 4310. S/NC.

4718-28-38 Honors: Home Economics Education (3, 3, 3) For juniors and seniors showing special ability and interest in home economics education. Prereq: Consent of department head.

GRADUATE

5510 Organization of the Homemaking Curriculum in Secondary Schools (3)
3030-31 Machining of Metals (3, 3) Introduction to machine shop theory and practice in using basic machine tools. Undergraduate credit only.
3512 Automotive Mechanics (3) Advanced laboratory experience in tune-up, overhaul, transmission, and the suspension system. Prereq: 1610.
3620 Architectural Graphics (3) Introduction to fundamental architectural and residential architecture. Light construction principles are stressed and working drawings for a residential building are developed. Prereq: Consent of instructor.
3630 Digital Electronics Technology (3) Basic principles and application of digital electronics. Prereq: 2630 or permission of instructor.
3640 Advanced General Metals (3) Provides experiences in areas of hot and cold forming of metals, molding and metal finishing, tool grinding, heat treatment, fabrication, and precision measurement. Prereq: 2641.
3650 Welding, Brazing, Cutting, and Related Processes (3) Prerequisites, project selection and informational assignments. Undergraduate credit only.
3651 Plastic Processing (3) Plastics production equipment and related product design and processing of plastics. Prereq: Consent of instructor.
3662 Construction Methods and Materials (3) Materials, methods, and equipment used in residential construction, including location and evacuation, foundry, framing, roofs, interior and exterior finishes, installation, and acceptable practices in assembly. Prereq: 1661.
3672 Graphic Arts Reproduction Processes (3) Graphic arts skills in printing and duplicating techniques and other modes of graphic communication. Undergraduate credit only.
3810 Related Science, Mathematics, and Technology in Occupations (15) Prior department approval for registration. Applicants must show evidence of bonafide occupational experience compatible with State Plan requirements. Occupational experience must be in a recognized trade area. S/NC.
3811 Manipulative Skills in Occupations (15) Prior department approval for registration. Applicants must show evidence of bonafide occupational experience compatible with State Plan requirements. Occupational experience must be in a recognized trade area. S/NC.
3812 Knowledge of Related Subjects in Occupations and Personal Qualifications (15) Prior department approval for registration. Applicants must show evidence of bonafide occupational experience compatible with State Plan requirements. Occupational experience must be in a recognized trade area. S/NC.
3820-21-22 Physical Testing Technology (3, 3, 3) Skills and techniques involved in radiography, metallography, tensile and compression testing, and other destructive and non-destructive testing methods. Undergraduate credit only.
3830 History and Philosophy of Industrial Education (3)
3840-41-42 Part-time Programs in Cooperative Instruction (3) Undergraduate credit only.
3850 Shop Organization and Management (3)
3860-61 Materials and Methods for Teachers of Shop and Related Subjects (3, 3) Prerequisites, project selection and informational assignments. Undergraduate credit only.
3870 School Shop Safety (3)
4620 Special Topics in Drafting (3) Industrial practices in specialized areas of drafting selected for the individual student. Prereq: 6 hours of drafting.
4630 Industrial Electronics and Digital Equipment Controls (3) Applications of digital and analog electronics in industrial and control circuits. Emphasis is placed on circuit analysis, trouble-shooting, and synthesis of systems, including microprocessor applications. Prereq: 3630.
4660 Vocational Technical Laboratory Equipment Maintenance (3) Understanding of preventive maintenance, maintenance, and calibration of instruments and power equipment used in industrial education shops.
4670 Manufacturing Processes (3) The manufacturing processes of industry and their relationship to careers. Prereq: 2621, 2641, 2650, 2651, or consent of instructor.
4671 Materials and Processes (3) Organic and inorganic materials and processes used to produce finished products. Content, curriculum, and techniques of laboratory operation. Prereq: Consent of instructor.
4682 Power and Energy (3) Development, control, transmission, conversion, interrelationship of power sources; content, curriculum, and techniques of laboratory operation. Prereq: Consent of instructor.
4690 Visual Communications in Industrial Arts (3) Methods of developing and transmitting ideas and information as related to industry and society. Content, curriculum, and techniques of laboratory operation. Prereq: Consent of instructor.
4691 Course Construction in Industrial Arts (3) Advanced work in the development and manifestation of course content. Undergraduate credit only.
4801-02-03 Tools and Machine Design (3, 3, 3) Tool and machine design, calculations, design systems, and designing procedures. Undergraduate credit only.
4810 Directed Teaching (9) Guided observation and teaching in trade, industrial, and/or technical programs in secondary, adult, post secondary, and junior college industrial vocational and technical curricula. Undergraduate credit only. S/NC.
4811 Directed Teaching (6) Observation of all types of trade and industrial classes; preparation of lesson plans and supervised teaching in at least two types. Prereq: Senior standing in industrial education. Prereq, or coreq: 4210. 1 hour and 5 periods. Undergraduate credit only. S/NC.
4815 Industrial Training & Supervision (3) Principles and techniques of handling and understanding the relationship between trainers, supervisors and employees. Covers such topics as effective communication, leadership traits, improving work methods, industrial safety and informational skills for trainers and supervisors; or coreq: Senior standing.
4820 Foremanship Training by the Conference Method (3)
4830-31 Job Analysis (3, 3) Principles, practice, instructional methods.
4840 Methods of Teaching Shop and Related Subjects (3) Undergraduate credit only.
4850-51 Curriculum Building in Trade and Industrial Subjects (3, 3) Arranging course material in trade subjects. Covering such topics as effective communication, leadership traits, improving work methods, industrial safety and informational skills for trainers and supervisors; or coreq: Senior standing.
4860-61-62 Problems in Industrial Education (3, 3, 3)
4870 Numerical Control (3) Tooling, manual programming, automatic programming, and use of automatic language, and use of automatic programmer as a computer. Undergraduate credit only.
4880-81-82 Seminar in Industrial Education (3, 3, 3) Educational innovations, current events, problems, and controversies associated with the field of industrial education.
4885 Organization and Development of Vocational Industrial Clubs of America (VICA) (3) Designed to
give the industrial education teacher experiences and an understanding of the organization and operation of VICA. Prereq: Undergraduate degree and 3 yr. teaching experience when taken for graduate credit.

4890 New Developments in Industrial Education (3) Developments, pressing problems and recent trends in field of industrial education as presented by a coordinating instructor in conjunction with knowledgeable resource personnel.

4891 New Developments in Industrial Education (3) Developments, pressing problems and recent trends in field of industrial education as presented by a coordinating instructor in conjunction with knowledgeable resource personnel.

4895 New Developments in Industrial Education (3) Developments, pressing problems and recent trends in field of industrial education as presented by a coordinating instructor in conjunction with knowledgeable resource personnel.

4896 Internship in Training and Supervision (6,9,15) Cooperative work experience as a trainer or supervisor in an industry, business or health institution. Supervision of the experience is conducted by a person in management and the university coordinator. Seminar required. Prereq: Senior standing and VTE 4815. S/NC only.

GRADUATE

5030 Organization and Operation of Area Vocational-Technical Schools (3)

5055 Vocational School Administration and Management (3)

5810-11-12 Administration and Supervision of Industrial Education (3, 3, 3)

5830-31-32 Special Problems in Industrial Education (3, 3, 3)

5840 Method of Research in Industrial Education (3)

5850 Improving Teachers in Service (3)

5860 Advisory Committees and Apprentice Training (3)

5880 Advanced Methods of Teaching Skills and Technical Information (3)

5890-91-92 Seminar in Industrial Technical Education (3, 3, 3)

5895 New Developments in Industrial Education (3)