Teacher 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

#### Admission to the College

Application for association with the College of Education may be made at any time. Freshmen are required to have at least 16 units of high school credits. For transfer into the College of Education after completion of the freshman year, a minimum grade average of 2.0 (C) is required.

**Course Load—Permission for more than 19 hours in a quarter must be obtained from the Assistant Dean for Support Services. A normal course load in the college is 16-19 hours.**

#### 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 (I) begin the multiphase admission process during their first quarter of full-time attendance and (2) complete the process of approximately the 60th 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 exempt from this requirement. (Transfer students having a minimum ACT composite score of 765 of 17 or a combined score 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 skills 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 2.2 UTK grade point average. Furthermore, transfer students must, also, have a minimum of 2.2 cumulative
grade point average. (No applicant's grade point average will be considered until the completion of at least 60 quarter hours.) 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 the quarter 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 Director 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 at the same time regardless of their status in the process of admission to the Teacher Education Program.

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

(1) Full 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 courses at The University of Tennessee.

(5) Completion of the Pre-Student Teaching Seminar and the September Experience.

(6) Senior standing and a minimum grade point average of 2.2.

In addition, any record established by the student in the Office of Student Conduct will be reviewed by the Admissions and Retentions Committee.

The 15-quarter hour student teaching experience is evaluated on a satisfactory-no credit basis and the hours are included in the University policy requiring a 2.0 in the last 45 hours worked toward the degree.

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 wish 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 request 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.

Application for all student teaching programs must be submitted by deadlines set for each quarter. A schedule of the application meetings is available in the Office of the Director of Student Teaching, 212 Claxton Education Building.

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 212 Claxton Education Building.

The 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 quarter hour course dealing with the learning and behavioral characteristics of handicapped students.

(7) Effective January 1, 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 College Teaching degree, the Master of Public Health 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 in Education and to eligibility for teacher certification in Tennessee and in those states which grant reciprocally 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 science courses (3519, 3520, 3530, 4140, 4150, 4270, 4330, 4750).

Endorsement as a librarian requires 27 quarter hours in library science. At the undergraduate level, only a minor of 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 controlled electives, 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 controlled 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.

Curricula for Elementary Teachers
A. Grade 1 through Grade 8

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 College Teaching degree, the Master of Public Health 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 in Education and to eligibility for teacher certification in Tennessee and in those states which grant reciprocally 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.

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Endorsement as a librarian requires 27 quarter hours in library science. At the undergraduate level, only a minor of 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.

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Curricula for Elementary Teachers
A. Grade 1 through Grade 8

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 College Teaching degree, the Master of Public Health 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.
College of Education

Health and Physical Education (18 hours)
- P.E. 3450 (3), School Health 3610 (3).
- Psychology 2500 (4), P.E. and health electives (8 hours) must include minimum of 3 hours in each area.

Humanities (12 hours)
- Literature 8 hours; the remaining four hours must be chosen from foreign language (above introductory level), philosophy, religious studies, Art 1815 or 1825, or Music 1210 or 1220, or Art 1410 or 1415.

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

Natural Science (20 hours)
- 8 or 12 hours in biological science. Recommended series are Biology 1210, 1220 (1230 or Botany 1110, 1120). 8 or 12 hours in physical science. Recommended series are Physics 1410, 1420 (1430), or Geology 1410-20-30 or Astronomy 2110, 2120 (2130), or Chemistry 1110, 1120 (1130).

Social Studies (18-20 hours)
- History 4 hours; it is recommended that the history course be taken at the sophomore level. Electives (8-14 hours) from anthropology, economics, geography, human services, political science, and sociology.

Minimum of 3 areas are required.

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

ELEMENTARY EDUCATION COURSES
- 36 hours

SPECIALIZED COURSES
- 21 hours
  - Educational Psychology 2430; Art Education 2100, 2110; Music Education 2100, 2110, 2130; Educ. C & I 3510; Special Education 3333.

AREAS OF CONCENTRATION
- 15-16 hours
  - One or more areas of specialization are to be chosen from the following:
    - Art requirements plus 15-16 hours from art, IDH, art education.
    - Black Studies Courses from at least 3 different fields must be included. See Black Studies for specific course possibilities.
    - Child Studies Requirements plus 15-16 hours from child development, psychology, educational psychology.
    - Humanities Requirements plus 15-16 hours.
    - Language Arts Requirements plus 15-16 hours in English, Speech, Journalism.

Library and Information Science
- Requirements plus 15-16 hours. If certification is desired in library service, the student must complete 24 hours in Library and Information Science 3520-30, 4140, 4150, 4270, 4330, 4750.

Mathematics Requirements plus 15 hours.

Middle Schools
- 15-16 hours, to include Educ. C & I 5570; Ed. Psychology 3810; Educ. C & I 3520 or 4280; Educ. C & I 3462 or 3653, or 3654 or 3657 or 3658 (a second methods course); Educ. C & I 3430 or 3451 or 4562; lab experience in middle school.

Music Requirements plus 15-16 hours.

Science Requirements plus 15-16 hours.

Special Education 15 hours (If certification is desired in special education, additional hours are required, including one additional quarter of student teaching) Special Education 4110, 4610, 4120 or 4620 and 6 hours of electives in special education. Recommended electives are 4130, 4250, 4350.

a) Crippling and Special Health Conditions
- Special Education and Rehabilitation 4150, 3333, 4840, 4921; Child Development 4610 or Human Services 2690; and 3 hours from Special Education 3620, 4130, 4160 or 4250.

b) Partially Seeing
- 21 hours Special Education and Rehabilitation 4150, 3333, 4850, 4923; 6 hours from Special Education 3520, 4110, 4120, 4150, 4250, 4840; Office Administration 2110 for those lacking high school credits in typewriting.

ELECTIVES
- 14-18 hours

TOTAL MINIMUM REQUIRED
- 191 hours

*Requires admission to Teaching Education Program.

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

GENERAL EDUCATION
- 89 hours

Communications (12 hours)
- English 1010 or 1011; 1020; 1031 or 1032 or 1033 (English 1019 may be required for some students); Speech 2021 or 2311 or any speech elective.

Health and Physical Education (18 hours)
- P.E. 3450 (3), School Health 3610 (3).
- Psychology 2500 (4), P.E. and health electives (8 hours) must include minimum of 3 hours in each area.

Humanities (12 hours)
- Literature 8 hours; the remaining four hours must be chosen from foreign language (above introductory level), philosophy, religious studies, Art 1815 or 1825; or Music 1210 or 1220, or Art Ed. 4160.

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 4320 or 4510; Electives (from anthropology, economics, geography, human services, political science, sociology).

Interdisciplinary Studies
- Economics (16 hours) H.E.

Mathematics (9 hours)

SPECIALIZED COURSES
- 34 hours
  - P. E. 3450, 3660; Pub. Health 3210; 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
- 6 hours

TOTAL MINIMUM REQUIRED
- 192 hours

*Requires admission to Teaching Education Program.

**Total three hours required.

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

**Psychology (4 hours)**
- Psychology 2600.

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

**CORE PROFESSIONAL EDUCATION**...53 hours

**A. Education Curriculum & Instruction (9 hours)**
- Educ. C&I 3010, 3020, 3030*

**B. Edu. C&I Methods (29 hours)**
- Educ. C&I 3260, 3270, 3280, 3281, 3250, 3251, 3252, 3254, 3255, 3257, 3258, 3259

**C. Educ. C&I Student Teaching (15 hours)**
- Educ. C&I 4810, 4720.

**SPECIALIZED COURSES**........13 hours

**AREA OF CONCENTRATION**........36 hours
- Maximum of 24 hours of lower-division mathematics courses including at least one year of calculus or analytic geometry and calculus.
- Minimum of 12 hours of mathematics courses numbered 3500 or above including at least one course in algebra and one in geometry.

**ELECTIVE**........................6 hours

**TOTAL MINIMUM REQUIRED**......198 hours

*Requires admission to Teacher Education Program.
**Requires Student Teaching.

**III. Curricula for Secondary Education (7-12)**

**GENERAL EDUCATION**.........70 hours

**Communications**.................(13 hours)
- English 1010 or 1011, 1020, 1031 or 1032, 1033 (English 1019 may be required of some students); 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)
- A biological science, a physical science, or a combination of the two.

**Psychology**.........................(4 hours)
- Psychology 2600.

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

**C. Mathematics Education**

**1. Area Majors in Mathematics**
- a. Mathematics and Physical Sciences (75 hours)
- b. Mathematics and Related Sciences (72 hours)
- c. Mathematics and Computer Sciences (72 hours)

**2. Foreign Language Major and Minor**
- a. 45 quarter hours (less quarter hours if based upon 2 entrance credits from high school) and one language with no less than 27 quarter hours of upper-division courses.
- b. 27 quarter hours in another subject.

**Endorsements:** Mathematics, General Science, Social Studies, Health and Physical Education, General Psychology, Social Science, Visual Arts, Industrial Arts, or Health and Physical Education.
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 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)

English 1010-20 and 1031 or 1032 or 1033; and 3-4 hours in speech.

Health and Physical Education (9 hours)

Activities courses in physical education plus School Health 3510.

Humanities (15-16 hours)

Art History 1815 and 1825, one literature course, and one elective from anthropology, philosophy, foreign language above 1000 level, upper division history, library service, religion or music.

Mathematics (4 hours)

Natural Science (12 hours)

Any twelve hours from the biological and/or physical sciences.

Psychology (4 hours)

Psychology 2500.

Social Studies (12 hours)

Any twelve hours from at least two areas.

CORE PROFESSIONAL EDUCATION......9 hours

Ed. C & I 3010*, 3020, 3030*

SPECIALIZED PROFESSIONAL EDUCATION......22 hours


TEACHING AREAS AND ELECTIVES......85-110 hours

Concentration In Vocal Music (Voice Principal)

a. 25 quarter hours in Music Education: 1010-20; 2110; 2411; 2421; 2431; 3130; 3150; 4420; 4510.

b. 60 hours in music: 1111-21-31; 1132-33; 2111-21-31; 2111-23-33; 2340; voice 22 hours; required ensemble 11 hours plus piano proficiency.

Concentration In Vocal Music (Piano or Organ Principal)

a. 25 quarter hours in Music Education: 1010-20; 2110; 2411; 2421; 2431; 3130; 3150; 4420; 4510.

b. 60 hours in music: 1111-21-31; 1132-33; 2111-23-33; 2340; piano or organ 22 hours; voice 6 hours; required ensemble 11 hours.

Concentration In Elementary Music Education (Voice Principal)

a. 31 quarter hours in Music Education: 1010-20; 2110; 2411; 2421; 2431; 3141-42; 3150; 4420; 4441-42-43; 4450.

b. 60 hours in music: 1111-21-31; 1132-33; 2111-21-31; 2111-23-33; 2340; voice 22 hours; piano proficiency; required ensemble 11 hours.

Concentration In Elementary Music Education (Piano or Organ Principal)

a. 31 quarter hours in Music Education: 1010-20; 2110; 2411; 2421; 2431; 3141-42; 3150; 4420; 4441-42-43; 4450.

b. 66 hours in music: 1111-21-31; 1132-33; 2111-23-33; 2340; piano or organ 22 hours; voice 6 hours; required ensemble 11 hours.

Concentration In Instrumental Music Education

a. 35 quarter hours in Music Education: 1010-20; 2110-12; 2421-22-23; 2431-32-33; 3130; 3410; 4420; 4430.

b. 72 hours in music: 11441-42-43; 4450; 4510; 4520; 4530; 4540; 1132-33; 2111-21-31; 2111-23-33; 2340, 3122 or 4124; principal instrument 22 hours; secondary instrument 6 hours; piano proficiency; required ensemble 11 hours.

Concentration In Instrumental Music Education

a. 35 quarter hours in Music Education: 1010-20; 2110-12; 2421-22-23; 2431-32-33; 3130; 3410; 4420; 4430.

b. 72 hours in music: 11441-42-43; 4450; 4510; 4520; 4530; 4540; 1132-33; 2111-21-31; 2111-23-33; 2340, 3122 or 4124; principal instrument 22 hours; secondary instrument 6 hours; piano proficiency; required ensemble 11 hours.

Music Education 4460 is required for all students whose principal instrument is wind or percussion.

TOTAL MINIMUM REQUIRED......182-209 hours

GENERAL REGULATIONS FOR ALL MUSIC EDUCATION STUDENTS

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.

**Institutional Major.** Concert Band; University Marching Band; or University Orchestra.

**Vocal Major.** Concert Choir; University Chorus; Chamber Singers.

**Elementary Music Education Major.** Same as Vocal Major.

B. Transfer students must take proficiency examinations in applied music, music theory, sight singing and dictation prior to registration in music education curricula.

*Requires admission to Teacher Education Program.

### V. Health, Physical Education, Recreation, and Safety

#### A. Concentration in Elementary Physical Education (1-9)

**GENERAL EDUCATION**

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90 hours

**Communications** (12 hours)

- English 1010 or 1011; 1020 and 1031 or 1032 or 1033; Speech 2311 or 2312.

**Humanities** (16 hours)

- English 2510 or 2520 plus 12 hours of electives.

**Social Studies** (16 hours)

- Sociology 1510 or 1520 plus 12 hours of electives.

**Natural Science** (24 hours)

- Chemistry 1510-20, Physics 1450, and Zoology 2920-30 and 4940.

**Mathematics** (4 hours)

- Math 2500.

**Psychology** (4 hours)

- Psychology 2500.

**Health and Physical Education** (14 hours)

- School Health 3300 and 3420; physical education activities (8 hours) including P.E. 2012, 2022, 1022, 2102.

**ELECTIVES**

- 20 hours

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**TOTAL MINIMUM REQUIRED**

- 197 hours

*Requires admission to Teacher Education Program.

#### B. Minor in Elementary Physical Education

(Open only to students with a concentration in secondary physical education.)

- P.E. 3540; 3550; 3560; 3570; 3650; 3660; 3670; 3680; 4105; 3260.

#### C. Concentration in Secondary Physical Education (7-12)

**GENERAL EDUCATION**

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96 hours

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**Developmental Areas and Electives**

**TEACHING AREAS AND ELECTIVES**

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**Elementary Physical Education** (46 hours)

- P.E. 1000; 2540; 3560; 3570; 3580; 3590; 3650; 3660; 3670; 3680; 3320; 4110; 4150; 3330; 4440; 3260, and 4 hours of P.E. activities electives.

**Cognate Course and Electives** (24 hours)

- CFS 1210 and 21 hours to be used for endorsement, minor, or free electives.

**TOTAL MINIMUM REQUIRED**

- 197 hours

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**Natural Science** (16 hours minimum)

- 4 hours selected from: chemistry, physics, geology, astronomy, and Geography 1810, 1820, 3530. 4 hours selected from: biology or botany, zoology, the areas of anatomy or physiology. At least 8 additional hours selected from any or a combination of the above.

**Mathematics** (3-4 hours)


**Summary of Requirements**

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**Sociology** 1510 and 4550; at least eight additional hours selected from Sociology 1520, 3130, 3410, 3420, 3450, 3690; 4330, 4550; or Rural Sociology 3420 or Human Services 2690, 4960, 3930 and Political Science 2530, 2520, 2510-20, 3065-66, 3710-20, Economics 2110-20, 2001, 3220, 3240.

**Behavioral Sciences** (16 hours minimum)

- Psychology 2500, at least 12 additional hours selected from: Psychology 2540, 2550, 3550, 3560, 3580-60, or Psych. 2430, 2510-20, 4130, 4800, or CFS 2110, 3210-20, 4260, 4610, 4810.

**Communications** (16 hours minimum)

- English 1010 or 1011; 1020 and 1032; Speech 2311.

**Health and Safety** (3 hours minimum)

- School Health 3210, Public Health 3210 or Safety 3520.

**Humanities** (16 hours minimum)

- At least 4 hours selected from: English 2000 level and above; at least 3 hours selected from: Psychology 2540, 2550-60, 4101-20, 4130, Anthropology 2530, Geography 3660, Classics 2910-20, 2910-20, 2920-30, 3210-20, 4101, Philosophy 1510-20, 2130, 4140, 3315, 3680, 3910, Religious Studies 2610, 2611.

**Cultural Arts** (12 hours minimum)

- 4 courses from at least 2 of the following areas: Music 1210-20, 3210-11-12, 3350, 4230.
PROFESSIONAL RECREATION EDUCATION 24 hours
Recreation 1100, 3140, 3100, 3200, 3220, 4130, 4200, 3880.
FIELD STUDY 21-24 hours
Recreation 1000, 2000, 3000, 4000.
SKILLS AREAS 18-24 hours
Student selects two of the following skill areas and completes at least 3 courses (9-12 hours) in each:

- **Arts and Crafts:** Art 1115-25-35, 2105, 2115, 2205, 2215, 2250-60-70, 2275, 2315, 2420-25, 2515-16, 2545-55-65, 2605, 2617, 2950-60-70, 3260, 3710, 4150; Art Education 2100, 2210-20, 3110, 3920-30, 4130, 4150 4410.

- **Dance:** P.E. 2711-12-13, 2728, 2747-48-49-50, 2782, 2788-79, 4310, 3510-20-30-40, 3100, 4320, 3070.

- **Dramatics:** Theatre 1310-20-30, 2111, 2121, 2121-21, P.E. 4070.

- **Music:** Music Education 4410, 2100, 1010-20, Music 1500 through 1595 applied music series.

- **Outdoor Recreation and Camping:** Forestry 4440, 4240, Recreation 3301, 3302, 3710, 4310.

- **Sports:** Physical education—2 team sports, 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)
  - Public Health 3000
  - 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 (4, 4, 4)
  - Biology 1210-20 or Zoology 2920-30.

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

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

CORE PROFESSIONAL EDUCATION...9 hours


SPECIALIZED PROFESSIONAL EDUCATION: 25 hours

- Education C & I 4750
- Education C & I 4710 and 4720
- Education Psychology 3810
- School Health 3650, 4100.

TEACHING AREAS AND ELECTIVES...69 hours

- School health required courses (9): 3410, 3420, 3620
- School health electives (3): 4710 or 4810-20-30
- Public health required courses (9): 3310, 3320, 3330
- Public health electives (6)
  - Safety
  - Biology 1230
  - Microbiology 2010
  - Psychology 3150
  - Sociology 1520
  - Sociology 2190
- Nutrition 1230
- Electives (16)

Special Note: If some of the specific courses cited above are dropped or changed, they may be substituted with an equivalent course.

TOTAL MINIMUM REQUIRED 190 hours

*Requires admission to Teacher Education Program.

J. Major in School Health Education

GENERAL EDUCATION...87 hours

- **Communications** (13 hours)
  - English 1010-20 and 1032; Speech 2311.

- **Health and Physical Education** (11 hours)
  - School Health 3000
  - School Health 3210
  - Physical education electives (4).

- **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 (4, 4, 4)
  - Biology 1210-20 or Zoology 2920-30.

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

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

CORE PROFESSIONAL EDUCATION...9 hours


SPECIALIZED PROFESSIONAL EDUCATION: 25 hours

- Education C & I 4750
- Education C & I 4710 and 4720
- Education Psychology 3810
- School Health 3650, 4100.

TEACHING AREAS AND ELECTIVES...69 hours

- School health required courses (9): 3410, 3420, 3620
- School health electives (3): 4710 or 4810-20-30
- Public health required courses (9): 3310, 3320, 3330
- Public health electives (6)
  - Safety
  - Biology 1230
  - Microbiology 2010
  - Psychology 3150
  - Sociology 1520
  - Sociology 2190
- Nutrition 1230
- Electives (16)

Special Note: If some of the specific courses cited above are dropped or changed, they may be substituted with an equivalent course.

TOTAL MINIMUM REQUIRED 190 hours

*Requires admission to Teacher Education Program.

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

REQUIRED COURSES...17 hours

- Safety 3520, 4410, 4420; Public Health 3210.

ELECTIVES...11 hours

- At least nine hours selected from: Public 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, 3410; Nutrition 1230 or Public 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 1032 or 1033. (Some students may be required to take English 1019 based on placement scores.)

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

- **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 (8 hrs.).

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

- **Natural Science** (16 hours)
  - 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 (6 hours).

- **CORE PROFESSIONAL EDUCATION**...6 hours
  - Educ. C & I 3010* and 3030*

- **SPECIALIZED PROFESSIONAL EDUCATION**

- **Language Arts** (12 hours): Educ. C & I 3260, 3280, 3281 and three elective hours.

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

- **Psychology** (9 hours): Ed. Psych. 2430 or 3810 and six elective hours.

- **Child Development** (9 hours): Nine elective hours.

- **Student Teaching in Elementary Schools** (9 hours): Educ. C & I 4810* (regular classroom with non-handicapped children).
**Education Students in the Program for Teaching**

**TEACHERS OF THE HEARING IMPAIRED**

C. Concentration In the Hearing Impaired

**TOTAL MINIMUM REQUIRED**

209 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)

Special Education 3333, 4520, 4110, 4120, 4130, 4150, 4351, 4361, 4440, 4610, 4740, 5260, 5620.

**SPECIAL EDUCATION COURSES**

75 hours

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 recommendations (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 practical experiences.
   f. writing sample.
   g. the Committee will grant full, provisional, admission or will deny admission. A candidate may appeal the decision to the Departmental Appeals Committee.
3. Admission to the Program will be granted after the Program Screening Committee reviews applications and requirements above are met.
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 requirements will follow the same admission procedures.

1. Specialization in Early Childhood Development

**GENERAL EDUCATION**

74 hours

Communications (9 hours)

Special Education 3333, 4520, 4110, 4120, 4130, 4150, 4351, 4361, 4440, 4740, 5260, 5620.

**SPECIALIZED COURSES**

36 hours

Special Education 3333, 4520, 4110, 4120, 4130, 4150, 4351, 4361, 4440, 4740, 5260, 5620.

**SPECIAL EDUCATION COURSES**

18 hours

Special Education 3333, 4520, 4110, 4120, 4130, 4150, 4351, 4361, 4440, 4740, 5260, 5620.

**SPECIAL EDUCATION STUDENT TEACHING**

15 hours

Special Education 4880, 4881, 4882.

**TOTAL MINIMUM REQUIRED**

199 hours

*Required admission to Teacher Education Program.

C. Concentration in the Hearing Impaired Admission to the Program for Teachers of the Hearing Impaired

In addition to the general requirements for Admission to Teacher Education, Special Education students in the program for teaching the hearing impaired will follow these procedures:

**AREA OF SPECIALIZATION**

30 hours

CFS 4110 or 4630; Ed. C & I 4450, 4451; Special Education 5620; choose 9-21 hours from the following: CFS 3110, 3120, 3130, 3210 & 3220 (or Educational Psychology 2430), 3610, 4110, 4230, 4350, 4420, 4610, 4620, 4630.

**TOTAL MINIMUM REQUIRED**

180 hours

2. Specialization in Elementary Education

**GENERAL EDUCATION**

77 hours

Communications (8 hours)

Special Education 3333, 4520, 4110, 4120, 4130, 4150, 4351, 4361, 4440, 4740, 5260, 5620.

**SPECIALIZED COURSES**

12 hours

English 1030-20 and 1037 or 1033, 1035, 1036, 1038, 1039, 1040.

**SPECIAL EDUCATION STUDENT TEACHING**

18 hours

Special Education 4880, 4881, 4882.

**TOTAL MINIMUM REQUIRED**

189 hours

*Required admission to Transfer Education Program.

**SOCIAL STUDIES**

18 hours

Special Education 4880, 4881, 4882.

**TOTAL MINIMUM REQUIRED**

199 hours

*Required admission to Teacher Education Program.

3. Specialization in Secondary Education

**GENERAL EDUCATION**

75 hours

Communications (9 hours)

Special Education 3333, 4520, 4110, 4120, 4130, 4150, 4351, 4361, 4440, 4740, 5260, 5620.

**SPECIALIZED COURSES**

12 hours

Special Education 4880, 4881, 4882.

**TOTAL MINIMUM REQUIRED**

189 hours

*Required admission to Teacher Education Program.

**SOCIAL STUDIES**

18 hours

Special Education 4880, 4881, 4882.

**TOTAL MINIMUM REQUIRED**

199 hours

*Required admission to Teacher Education Program.

**SPECIAL EDUCATION STUDENT TEACHING**

15 hours

Special Education 4880, 4881, 4882.

**TOTAL MINIMUM REQUIRED**

189 hours

*Required admission to Teacher Education Program.

**CORE PROFESSIONAL COURSES**

9 hours

ed. C & I 31010*, 3020*, 3030*.

**SOCIAL STUDIES**

18 hours

History 1510-20 or 2510-20.

**TOTAL MINIMUM REQUIRED**

180 hours

**SPECIALIZED COURSES**

12 hours

Educational Psychology 2430, Art Education 2100, Music Educ. C & I 3510.

**TOTAL MINIMUM REQUIRED**

189 hours

*Required admission to Teacher Education Program.

**SPECIALIZED COURSES**

12 hours

Educational Psychology 2430, Art Education 2100, Music Educ. C & I 3510.

**TOTAL MINIMUM REQUIRED**

189 hours

*Required admission to Teacher Education Program.

**SPECIALIZED COURSES**

12 hours

Educational Psychology 2430, Art Education 2100, Music Educ. C & I 3510.

**TOTAL MINIMUM REQUIRED**

189 hours

*Required admission to Teacher Education Program.

**SPECIALIZED COURSES**

12 hours

Educational Psychology 2430, Art Education 2100, Music Educ. C & I 3510.

**TOTAL MINIMUM REQUIRED**

189 hours

*Required admission to Teacher Education Program.
philosophy, foreign language (above introductory level), religious studies, music, library and information science.

**Mathematics** (4 hours)
Mathematics 2012

**Natural Science** (20 hours)
If major is in science education, student must take 12 hours in biological sciences.) 8-12 hours in the biological sciences: (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; Geology 1510-20.

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

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

**AREA OF CONCENTRATION** 67 hours

**Choose 3 areas from:** anthropology, economics, geography, political science, sociology.

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

**SPECIALIZED PROFESSIONAL EDUCATION** 6 hours
Educational Psychology 3810 and appropriate methods course for major area.

**AREA OF CONCENTRATION** 67 hours

**Choose 3 areas from:** anthropology, economics, geography, political science, sociology.

**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).

**Humanales** (16 hours)
English (4 hours from 2000-level literature). Electives representing two areas from the following: 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** (20 hours)
Psychology 2500.

**Social Studies** (20 hours)
History electives (8 hours) plus 12 hours representing three areas from anthropology, economics, geography, political science, sociology.

**General Electives** (6 hours).

**TOTAL MINIMUM REQUIRED** 187 hours

### 4. Specialized in Multiple Handicapped

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

**Health and Physical Education** (10 hours)
School Health 3510; Physical Education 3450 and physical education 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 hours)
History 1510-20 or 2510-20.

**Choose 3 areas from:** 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.

**AREA OF SPECIALIZATION** 30 hours
Selected from the following: Spec. Ed. 3210-20-30, 4740, 3910, 3920, 4110-20-30, 4150-60, 4440, 4810-20, 4840, 5400, 5401, 5620, and special education electives.

**TOTAL MINIMUM REQUIRED** 181 hours

### D. Concentration in Speech and Hearing

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

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

**Humanales** (16 hours)
English (4 hours from 2000-level literature). Electives representing two areas from the following: 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** (20 hours)
Psychology 2500.

**Social Studies** (20 hours)
History electives (8 hours) plus 12 hours representing three areas from anthropology, economics, geography, political science, sociology.

**General Electives** (6 hours).

**CORE PROFESSIONAL COURSES** 9 hours
Education C & I 3010*, 3020, Special Ed. 4030.

**SPECIALIZED PROFESSIONAL EDUCATION** 19 hours
Psychology 2520 or 2530, Psychology 3550 or 2540 or Ed. Psych. 2430 or 3810, 11-12 hours upper-division psychology or educational psychology including Psychology 3150. (Ed. Psych. 3110, 4130, 4110-20; 4510-20 or 4530 (3 hours); Ed. C & I 4750; Special Education 3333.

**TEACHING AREAS AND ELECTIVES** 69 hours
Special Education 3333, three-hour elective (4110 or 4130 recommended).

**Core** Audiology and Speech Pathology (or Special Education) 3310, 3710, 4040, 4510, 4400, 4720, 4930. Audiology and Speech Pathology 3010, 3050, 3065, 3200, 4610, 4650. Clinical Practicum Courses (12-15 hours)

**TOTAL MINIMUM REQUIRED** 181 hours

*Requires admission to Teacher Education Program.

**College of Education** 111

The following area of endorsement requires completion of requirements of the elementary (K-9) or secondary education program.

### E. Concentration in Partially Seeing

a. Completion of requirements of Elementary (K-9) or Secondary Education Curriculum;
b. Special Education and Rehabilitation 333, 4160, 4650, 4623;
c. Six quarter hours selected from the following: Special Education and Rehabilitation 3520, 4110, 4120, 4150, 4250, 5850;
d. Office Administration 2110 (for those lacking high school credits in typewriting).

**TOTAL MINIMUM REQUIRED**
Total hours required for endorsement in the above Special Education program appear on curriculum sheets available from the faculty advisers.

### VI. Vocational-Technical Education

#### A. Business Education
See curricula for Secondary Education (7-12) p. 104 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

**GENERAL EDUCATION** 71-73 hours
Communications (12 hours)
English 1010 or 1011; 1020; 1031 or 1032; 1033; speech elective.

**Health and Physical Education** (9 hours)
Physical education and 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 2620 or Educ. Psych. 3110.

**Social Studies** Electives (12 hours)
Economics 2110-20-30; plus 3 additional hours in any social studies other than economics.

**PROFESSIONAL EDUCATION** 42 hours
Ed. C & I 3010*, 3020, 3030*; Bus. Ed. 4010. Educ. Psych. 3810; Dist. Ed. 4310-20-30; 4130, 4110-20; 4510-20 or 4530 (5 hours); Ed. C & I 4750; Special Education 3333.

**SPECIALIZED COURSES** 42 hours
Business Adm. 1110, Office Adm. 4310 or 4320; Accounting 2110; Marketing 3110-20, 4140, 4130; 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

*Requires admission to Teacher Education Program.

#### C. Industrial Education

**Option 1. Concentration in Trades and Industries**

See curricula for Secondary Education (7-12) for General Education and Professional Education requirements.
Vo. Tech. Ed. 1610, 1630, 2611, 2630, 3630.

Vo. Tech. Ed. 1643, 1661, 2641, 2652, 2660, 3640, 3651, 3662, 4660, 4662, 4670.

ELECTIVES ........................................ 16 hours

TOTAL MINIMUM REQUIRED .............. 186 hours

*Requires admission to Teacher Education Program.

Option 2. Concentration in Industrial Arts

Professors: C. H. Ball (Head); Ph.D. Peabody; A. W. Humphreys (Emeritus); Ed.D. Illinois; J. H. Jones (Emeritus); Ed.D. Columbia; W. J. Julian; Ph.D. Northwestern; J. W. Robertson; Ed.D. Columbia.

Associate Professors: H. L. Gill; B.S. Milwaukee State Teachers; H. N. Hull; Ed.D. George Peabody; W. H. McDaniel; M.S. Tennessee; J. O. Mintz; Ed.D. Columbia; M. C. Moore; Ph.D. Michigan; A. J. Palmer; Ph.D. UCLA; A. W. Tippes; Ph.D. Michigan.

Assistant Professors: P. O. Johansen; Ed.D. Indiana; J. P. Watkins; M.S. Tennessee.

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.

2100 Introduction to Art Education in Schools (3) Art grades 1 through 12; growth and development, objectives, motivation, evaluation. Experiences with school media. 1 hour and 2 labs.

2110 Drawing Painting, and Design Activities in Elementary School (3) Prereq: 2100. 1 hour and 2 labs.

2120 Drawing Painting, and Design Activities in Junior and Senior High School (3) Prereq: 2100. 1 hour and 2 labs.

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

3210 Art in Secondary School Program (5) Program planning; materials and equipment; relation to other school experiences. Classroom observation. Prereq: 5 hours in art education. 1 hour and 2 labs.

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.


3930 Textiles in School Program (3) Exploration of processes of weaving, stitching, batik, and silk screen. Prereq: 2100. 1 hour and 2 labs.

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 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 be not repeated for credit. S/NC only.

4120 Designing Teaching Aids for Art in School Program (3) Design and preparation of charts, exhibits, slides, films, and other teaching aids for art grades one through twelve. Prereq: 2100 or consent of instructor. 1 hour and two labs.

4130 Three-Dimensional Design in School Program (3) Exploration of wood, wire, metals, and other sculptural materials. Prereq: 2100 or consent of instructor. 1 hour and 2 labs.

4150 Lettering, Posters, and Displays in the School Program (3) Design and layout, techniques and procedures. Prereq: 2100 or consent of instructor. 1 hour and 2 labs.

4160 Appreciation of the Arts in School Program (3) Prereq: 2100 or consent of instructor. 1 hour and 2 labs.

4352-60-70 Problems in Art Teaching (3, 3, 3) Prereq: consent of instructor.

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

GRADUATE

5002 Thesis

5002 Non-Thesis Graduation Completion (3-15)

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

5310 Art of Education (3)

5320 Program Development in Art Education (3)

5850-56-70 Problems in Art Education (3, 3, 3)

Music Education (707)

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

1019-20 Choral Laboratory (1, 1) Choral conducting: methods and materials required of all music education majors. Prereq: Consent of instructor.

1511 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 of special education. 5 hours.

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

2411-12-13 Methods, Materials, and Techniques of String 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.

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.
243-32 Methods, Materials, and Techniques of Braille Class Instruction (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 instruments. Practical use of current instructional materials. 2 hours per week.

2433 Methods, Materials, and Techniques of Percussion Class Instruction (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, rhythm, 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, rhythm, instrumental, listening, creative, and music reading activities; evaluations; 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, rhythm, 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 or 3810, and two years of music theory.

3150 Teaching Music in Junior and Senior High School (3) Singing, techniques, curricula, scheduling, administration, evaluation, materials and equipment, community relations. Prereq: Two years of music theory; coreq: 3511.


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) 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 pre-student teaching seminars spring quarter. Prereq: Consent of 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 music for school, church, and community groups. 4440—vocal music. 4430—instrumental music. Prereq: 1010-20 and 3 hours of credit from 2411-21-31 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: Payne, J. T. (Emeritus), Ph.D. Columbia.


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; 2 lecture hours and 2 one-hour labs; labs meet with 1010-20.

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)

5410-20-30 The Talent Education Program of Shinichii Suzuki (2, 2, 2)

5710 Research in Music Education (3)

5810-20-30-40 Seminar (3, 3, 3, 3)

Continuing and Higher Education (267)

3960 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 leadership skills, as they relate to content area subjects.

5000 Thesis

5002 Non-Thesis Graduation Completion (3-15)

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


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

*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 (1) Improvement of reading rate, comprehension, vocabulary, and study skills, as they relate to content area subjects. 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, functionalism, behaviorism, and deconstruction; major ideas, historical roots, and modern applications. Undergraduate credit only.

3020 Principles and Organization of Education (3) Relation to current educational problems and practices; organization of the teaching profession and the professionalization of teaching. Undergraduate credit only.

3030 Social Foundations and Curriculum (3) Culture and community; the philosophy of 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 to describe and classify verbal interchanges between teacher and student related non-verbal behavior. Consent of instructor.

3180 Microteaching (3) Emphasis upon the development of instructional skills. Students teach a series of lessons to small groups of students in elementary or secondary schools. Lectures are videotaped and the students and instructor evaluate the teaching behaviors recorded on the tape. Prereq: Consent of instructor.

3200 Teaching Language Arts in the Elementary School (3) Prereq: Methods and materials in teaching writing, spelling, and language. Undergraduate credit only. Should be taken prior to or concurrently with C & I 3280. Prereq: Educ. Psych. 2430 or equivalent, 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.

3280 Teaching Developmental Reading in the Elementary School (3) Beginning course in sequence designed to enable preservice teachers to develop the skills and understandings necessary for the development of successful developmental reading programs in the elementary school. Prereq: Educ. Psych. 2430 or equivalent, admission to Teacher Education.

3310 History of Education (3)

3320 History of Education in the United States (3)

3350 Teaching Elementary School Mathematics (3) Enabling preservice teachers to develop skills and understandings necessary for the operation of successful mathematics program in the elementary school. Prereq: Educ. Psych. 2430 or equivalent; Mathematics 2110-2120, permission of instructor; admission to Teacher Education. Must be taken prior to student teaching.

3351 Teaching Elementary School Mathematics (3) Methods of teaching elementary school mathematics. Prereq: Mathematics 2110-2120, consent of instructor.

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

3511-12-13 Field Experiences in Teaching: Elementary (1, 1, 1) Field experiences in which students perform tasks related to teaching and to teacher roles. Must be taken before student teaching. Must be taken in sequence. Prereq: and 3523 and 35253 require Admission to Teacher Education. S/NC.

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

3561 Teaching of Speech and Drama, Grades 7-12 (3) For description, see 3561.

3562 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 3568 are required for certification in foreign languages. Must be taken concurrently with 3563.

3563 Teaching of Modern Foreign Languages: Reading, Literature, Grammar, and Composition, 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 3562.

3565 The Teaching of Social Studies, Grades 7-12 (3) Purposes, techniques, materials, and evaluation; directed observation in public schools; preparation of teaching plans and materials. Undergraduate credit only. Prereq. Educ. Psych. 3810 or equivalent.

3567 Teaching Language, Composition, and Speaking, Grades 7-12 (3) For description, see 3567. Both this course and Educ. C & I 3568 are required for certification in English.

3568 Teaching Reading, Literature, and Listening, Grades 7-12 (3) For description, see 3568. Both this course and Educ. C & I 3567 are required for certification in English.

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 3563. Both this course and 3752 are required for certification in mathematics.

3752 Teaching of Mathematics: Geometry and Analysis, Grades 7-12 (3) For description, see Educ. C & I 3563. Both this course and 3751 are required for certification in mathematics.

3753 Teaching Strategies and Issues in Social Studies Education (3) Examination of theoretical issues with practical teaching-learning activities in Social Studies Education. Both this course and Education 3653 are required for certification in Social Studies. Prereq: 3653.

4010 International Education: Europe and the Americas (3) Historical, philosophical, and sociological foundations; special reference to England, USSR, France and Germany.

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; presents special needs of student teachers; and raises awareness of professional liability. The pre-student teaching seminar must be taken immediately preceding the 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.

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.)

4215 Teaching Elementary School Science (3) Methods and materials used in teaching of science in elementary school. Development, understanding, and critical 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 in elementary school. Developmental and diagnostic/constructive 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 1-8. Prereq: 3350 or 3751 or equivalent.

4240 Classroom Instructional Organization (3) Developing understandings and skills relating to group, individualization, student-teacher communication, group, grading, integration, and achieving an effective social environment. For elementary classroom teachers. 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 regular classroom. The inexperienced or beginning teacher deals with the collection and interpretation of reading behavior information and the prescription of corrective teaching. Prereq: 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 reading in the case of classrooms and/or laboratories at the middle school, secondary school, and community college level.

4303 Language Development of Children: Birth-Preschool (3) Middepth view of language development from birth through preschool; omissions 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 conference, workshop, or service programs designed for improvement of instruction. May be repeated. Maximum credit 9 hours. S/N.

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

4430 Practicum in Teaching in the Elementary School (3) One or two credit term experience in elementary school classroom teaching designed for students seeking elementary certification who have obtained degrees in areas other than elementary education. Students must obtain 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: 3260-70-80, 3350, 3720 or equivalent admission to Teacher Education.
5381 Practicum in Remediation of Reading Problems (3)
5382 Developmental Reading Practicum (3)
5460 Problems in Improvement of Instruction (1-3)
5410 The High School Curriculum (3)
5510 Education in Cultural Perspective (3)
5570 The Junior High and Middle School Curriculum (3)
5580 Curriculum Planning and Development (3)
5610 Educational Statistics (3)
5625 Direction and Supervision of Student Teaching (3)
5650 Individualization of Instruction (3)
5649 Newer Trends in Elementary Education (3)
5650 Curriculum Laboratory for Elementary Schools (3-6)
5670 Curriculum for Early Childhood (K-3) (3)
5680 Teacher-Parent-Community Relations (3)
5690 Design of Instructional Media (3)
5691 Advanced Production of Audiovisual Software
5692 Evaluation of Instructional Media (3)
5693 Administering Instructional Media Programs (3)
5694 Utilization of Educational Television and Radio (3)
5695 Research in Instructional Media (3)
5696 Practicum Experiences in Instructional Media (3)
5697 Application of Instructional Media (3)
5710 Techniques of Research in Education (3)
5720 Observation and Analysis of Instruction (3)
5790 Career Development: Workshop (1-6)
5800 Seminar in Cooperative Curriculum Research (3)
5810 Introduction to Data Processing in Education (3)
5820 Seminar in the Teaching of Mathematics (3)
5825 Teaching Mathematics in the Middle and Junior High School (3)
5830 Seminar in Mathematics Education (3)
5835 Teaching Mathematics in the Senior High School and Community/Junior College (3)
5841 Trends and Issues in Early Childhood (3)
5842 Applications of Theory in Early Childhood Education (K-3) (3)
5843 Seminar in Early Childhood Education (3)
5844 Mathematics in Early Childhood Education (K-3) (3)
5845 Social Studies and Science in Early Childhood Education (K-3) (3)
5846 Language Arts in Early Childhood Education (K-3) (3)
5999 Field Experience (1-6)
5900 Seminar in the Teaching of English in the Secondary School (3)
5901 Linguistics and the Teacher of English (3)
5902 Teaching Composition in the High School (3)
5903 Teaching Fiction in the Secondary School (3)
5904 Teaching the Mass Media in the English Classroom (3)
5905 Teaching English in the Community/Junior College (3)
5906 Teaching Poetry in Grades 7-12 (3)
5907 Teaching Drama in Grades 7-12 (3)
5908 Developing Speaking and Listening Skills in Grades 7-12 (3)
5909 Instructional Theory and Design (3)
5910-20-30 Problems in Lieu of Thesis (3, 3, 3)
5911 Directing the Forensic Program (4)
5912 Play Production in Secondary Schools (4)
5913 Reflective Thinking: The Method of Education (3)
5914 Developing Natural Science (3)
5915 Seminar in Science and Environmental Education (3)
5920 Studies in Energy Education (3)
5921 Teaching the Social Studies (3)
5980 Projects, Programs, and Materials in Social Studies (3)
6000 Doctoral Research and Dissertation
6010 Studies in English Education (3)
6020 Seminar in Teaching the Social Studies (3)
6030 Research and Theory in Teaching Reading (3)
6031 Seminar in Reading and Language Arts (3)
6032 Organization and Administration of Reading Programs (3)
6040 Seminar in Curriculum and Instruction (1, 1, 1)
6060 Advanced Studies in Elementary Education (3)
6080 Advanced Seminar in Philosophy of Education (3)
6081 Phenomenology and Education (3)
6082 Philosophical Analysis and Education (3)
6090 Special Topics (1-6)
6091 Independent Study (1-6)
6092 Supervised Readings (1-6)
6150 Education as Social Policy (3)
6210 Seminar in Elementary School Social Studies Research (3)
6230 Programs for Curriculum Improvement (3)
6240 Interpretation of Research in Curriculum and Instruction (3)
6250 Seminar in History of Education (3)
6252 Advanced Studies in Elementary School Science (3)
6350 The Professional Education of Teachers (3)
6420-40-50 Problems in Lieu of Thesis (3, 3, 3)
6420 The Dynamics of Educational Change (3)
6500 Advanced Studies in Early Childhood Education (3)
6510 Advanced Studies in Elementary School Language Arts (3)
6511 Advanced Studies in Education Anthropology (3)
6610-20-30 Seminar in Dissertation Proposal Writing (2,2,2)
6710 Advanced Educational Statistics (3)
6720 Interpretation of Data (3)
6730 Evaluation in Curriculum Planning: Theory and Application (5)
6731 Advanced Studies in Curriculum (3)
6830 Studies in Mathematics Education (3)
6850 Principles of Educational Leadership (3)
6899 Internship (1-4)
6960 Advanced Studies in Secondary Science and Environmental Education (3)

Education (289)

Graduate

6001 Trans-College Seminar (1) (See Graduate Catalog for further information)

Educational Administration and Supervision (292)

Professors:

Associate Professors:
H. F. Atkinson, Ed.D., Tennessee (Vice Chancellor for Student Affairs); G. W. Harris, Jr., Ph.D., Michigan; P. M. Husen, Ed.D., Stanford.

Graduate

5000 Thesis
5002 Non-Thesis Graduation Completion (3-15)
5100 Internship in Educational Administration (3)
5130 Introduction to Educational Administration (3)
5160-50-5200 Educational Specialist Research and Thesis (3, 3, 3)
5220 Philosophy and Theory in Educational Administration (3)
5230 Seminar in the Behavioral Sciences for Educational Administration (3)
5290 The Politics of Education (3)
5310 School Administration and Civil Rights Issues (3)
5420 District Level Administration (3)
5430 Building Level Administration (3)
5440 Introduction to Law, Finance, and Business Management at the Building Level (3)
5450 Organization of the School Program (3)
5460 Personnel Administration: Local School (3)
5470 Introduction to School Facility Planning (3)
5480 Instructional Supervision—Local School (3)
5530 Introduction to Educational Planning (3)
5540 Tennessee School Law (3)
5560 Research for Educational Administrators (3)
5560 Seminar in Communication Skills for Educational Administrators (3)
5711 Problems in Educational Administration and Supervision: School Operation (3)
5712 Problems in Educational Administration and Supervision: Higher Education (3)
5713 Problems in Educational Administration and Supervision: State School Administration (3)
5714 Problems in Educational Administration and Supervision: Preparation Programs (3)
5715 Problems in Educational Administration and Supervision: Community Education (3)
5751 Problems in Educational Administration and Supervision: Theory (3)
5752 Problems in Educational Administration and Supervision: Finance (3)
5753 Problems in Educational Administration and Supervision: Transportation (3)
5754 Problems in Educational Administration and Supervision: Business Management (3)
5755 Problems in Educational Administration and Supervision: Personnel (3)
5756 Problems in Educational Administration and Supervision: School Plant (3)
5757 Problems in Educational Administration and Supervision: Organization and Structure (3)
5758 Problems in Educational Administration and Supervision: School Law (3)
5759 Problems in Educational Administration and Supervision: Supervision (3)
5770 Maintenance of School Plants (3)
5810 Survey Research Methods (3)
5850-60-70 Independent Study in Educational Administration (3, 3, 3)
5890 Decision Making and Decision Theory in Educational Organizations (3)
5900 Special Topics (3)
5910-20-30 Problems in Lieu of Thesis (3, 3, 3)
5950 Elementary Administrators Seminar (3)
5960 Middle School Administrators Seminar (3)
5970 Secondary Administrators Seminar (3)
6000 Doctoral Research and Dissertation
6040 Seminar in Educational Administration and Supervision (1, 1, 1)
6100 Internship in Educational Administration (3)
6110 Administrator Update (3)
6190 Administration in Higher Education (3)
6220 Programs for the Professional Preparation of Educational Administration and Supervision (3)
6340 Current Trends in School Law (3)
6380 Instructional Supervision—School District (3)
6420 School Board/Superintendency Relationships (3)
6440 School Business Management (3)
6450 Grant and Contract Proposal Preparation (3)
6460 School Personnel Administration (3)
6480 Special Topics in School Personnel Administration (3)
6530 Futuristic Educational Planning Methods (3)
6540 Contemporary Economics and Educational Finance (3)
6550 State-Federal Relations in Education (3)
2230 Career Development (3) Vocational opportunities and aspirations, including self-appraisal, career planning, decision making, occupational exploration, and vocational development.

2299 Developmental Laboratory (1) Repeatable to three credit hours. Specialized laboratory experiences in the improvement of skills related to academic, personal, or career development.

2430 Child Study (3) Child learning and development: study of individual children, ages 5-12. Prereq: Psychology 2500 or equivalent; coreq: either Educ. Psych. and Guidance 2000 or a 2 hr/week field experience.

3000 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 hours.

3100 Application of Learning Theory to Classroom Teaching (4) Overview of learning theories such as contingency theory, reinforcement theory, cognitive theory, and statistical models with particular emphasis on concepts applicable to classroom teaching. Two-hour lab and/or field experience required. Prereq: Psychology 2500.

3110 Classroom Behavior Management (4) Student will develop understanding of behavior management procedures and skill in utilizing behavior management procedures in shaping pupil classroom behaviors. Prereq: Psychology 2500.

3550 Child Psychology (4) (Same as Psychology 3520.)

3560 Individual Skills for Campus Leaders (3) Knowledge and skills for effectively managing leadership and administrative roles in campus organizations.

3810 Educational Psychology: Adolescence (3) Physical, emotional, intellectual, social, career, and ethical dimensions of adolescent development; major emphasis given to effective communication with adolescents within the educational setting. Prereq: Psychology 2500 or equivalent; coreq: either Educ. Psych. and Guidance 3000 or a 2-hour/week field experience.

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 pre-student teaching seminars during quarter. Prereq: full admission to the Teacher Education Program. Undergraduate credit only. May not be repeated for credit. S/NC only.

4110 Psychology of Sex Role Development (3) Examination from both a theoretical and research base, of factors which contribute to sex role development with attention to changes in sex role definition in society and role of education in these changes. Aimed at the undergraduate or graduate student with minimal background in behavioral sciences. (Same as Psychology 4110).

4130 Mental Health (3) Studies and exploration of positive mental health. Application of mental health criteria to study of one's self based on a battery of personality assessment instruments.

4350-60-70 Special Topics and Problems (1-6, 1-6, 1-6) May be offered for letter grade or S/NC and may be repeated.

4440 General Evaluation Procedures for Public Schools (3) Prereq: 2430 or equivalent.

4551-52-53 Student Leadership Workshops (1, 1, 1) Series of small group and individualized experiences to develop leadership roles. Sections are designed for resident students only and may be taken three times for a total of 6 credit hours.

4760 The Construction of Classroom Tests (3) Concerned with teacher-made classroom tests: instruc- tional objectives, principles of test construction, item analysis, evaluating a test's reliability and validity, interpretation of test scores, relationship between testing and grading.

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.

4910 Psychoeducational Aspects of Appalachian People (3) Exploration of psychology of people of Appalachian region through an examination of history, culture, and role of education.


4990 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 (3)

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)

5099 Field Work in School Psychology (1-6)

5100 Developmental Psychology (3)

5101 Advanced Psychology of Adolescence (3)

5110 Psychology of Women (3)

5111-12-13 Seminar in Current Issues in School Psychology (1, 1, 1)

5120 Seminar in Bias-Free Counselling (3)

5140-50-60 Psychoeducational Assessment (3, 3, 3) Coreq: Educ. Psych. and Guidance 2500 or equivalent.

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

5150-50-60 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) Level II (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)

5560 The College Student (3)

5720 Evaluation in Education (3)

5780 Career Development: Theory and Research (3)

5785 Career Development: Program Development Implementation and Evaluation (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:


Associate Professors:

J. A. Brown, Ed.D., Tennessee; J. D. Gonski, Dr. P. H. U. Illinois; C. A. Preston, Dr. P. H. Oklahomas; R. J. Pursley, Ph.D., Iowa; A. F. Thompson, Ph.D., Michigan.

Assistant Professors:

M. D. Banton, Re. D., Indiana; J. S. Ellick, Ed.D., Fort Hays State; V. W. Pressly, Ed.D., Tennessee; D. Downey, Ph.D., Ohio State.

Instructors:

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

Public Health (839)

1110 Principles in Personal Health (3) To develop ability to approach health scientifically and to develop justified confidence in judgments affecting personal health.

2040 Seminar in Human Sexuality (2) Problems and responsibilities of being male and female. S/NC.

2050 Seminar in Drug Use and Abuse (2) Intensive look at problems related to use and abuse of drugs. S/NC.

3000 Foundations 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. (Same as School Health 3000.)

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 16 years of age for certification.) (Same as School Health 3210.)

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, 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 suspected causes; pharmacology of drugs and poisoning, drug intoxication, and vehicular and other accidents. Educational and preventive aspects of controlling cardiovascular disease will be stressed. (Same as School Health 4320.)

4130 Community Health Problems-Suicide (3) Study of factors influencing the decisions of individuals and groups to take their own lives. Prereq: 3210 or valid Current First Aid and Emergency Care Instructor: (A requirement for this certification is that an applicant must be at least 21 years of age.) Prereq: 3210 or valid First Aid and Emergency Care Certificate.

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

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

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

4730 Workshop in Public Health Education (3-4) For teachers, nurses, case workers, sanitarians, and other voluntary and public health agency personnel; emphasizes the problem-solving approach through small group interaction, case method, and critical incident technique. May be repeated for credit.

4740 Public Health Fieldwork (6) Field practice in public health under the supervision of public health profession. S/NC.

4840-50-60 Problems in Public Health Education (1, 1) Individual identification and study of current problems in public health education. Extensive reading of literature required.

GRADUATE

5002 Non-Thesis Graduation Completion (3-15)

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

5070-80-90 Field Practice and Seminar in Public Health (3-6, 3-6, 3-6)

5110 Environmental Health (3-5)

5120-30 Occupational Health and Safety (5-6)

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)

5590 The Public Health Educator in Community Organization and Development (4)
3550 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)

Physical Education (764)

Instructors:
J. A. Richards, M.Ed; Slippy Rock State; F. K. Whitl, M.A.; Appalachian State; C. A. Wren, M.S.; Eastern Michigan.

1000 Introduction to Physical Education (2) Special emphasis on theoretical and practical aspects of physical education. S/NC.
1020 Physical Education: Swimming (2)
1021 Physical Education: Bowling (2)
1022 Physical Education: Basketball (2)
1032 Physical Education: Tennis (2)
10212 Physical Education: Soccer-Speedball (2)
1022 Physical Education: Volleyball (2)
1023 Physical Education: Golf (2)
2040 Dance Production (2) Preparation and presentation of public performances. May be repeated. Maximum credit 4 hours. Prereq: Consent of instructor.
2050 Dance Production (2) Preparation and presentation of public performances. May be repeated. Maximum credit 4 hours. Prereq: 2040 or consent of instructor.
2060 Dance Production (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 Administration of Athletics (2) 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.
diane. May be repeated. Maximum credit 6 hours. Prereq: 3010. Available to dance majors and minors or with consent of instructor.

3030 Intermediate/Advanced Modern Technique (2) Practical and analytical study of classical ballet technique. May be repeated. Maximum credit 6 hours.

3040 Elementary Jazz Techniques (2) Instruction and practice in styles and techniques of jazz. May be repeated. Maximum credit 6 hours.

3041 Intermediate Jazz Technique (2) Intermediate instruction in jazz dance technique with emphasis on lyrical and percussive styles. Prereq: 3040.

3050 Rhythmic Analysis (2) Emphasis on analysis of organic movement. Prereq: Junior standing, consent of instructor.

3060 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, state space, and alternative environments. Prereq: 3061.

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 various classical ballet styles and techniques. May be repeated. Maximum credit 6 hours. Prereq: 3070. Available to dance majors and minors or with consent of instructor.

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

3090 History of Dance and the Related Arts I (2) Dance history and the arts related to it from beginnings in primitive societies through the 19th century.

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 fundamental drills; rules for 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.

3151 History of Dance and the Related Arts II (2) Survey of dance and the arts related to it tracing their development in the 20th century.

3160 Officializing Basketball (3) Officializing appropriate to basketball competition. Emphasis on knowledge of 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, progress, 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, biochemistry, 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 understanding the functions and principles of 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 years periods of professional preparation. May be repeated. Maximum credit 10 hours. S/NC.

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 stressed with focus upon safety techniques.

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

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

3510 Conceptual Bases for Study of Human Movement Behavior (2) Biophysical, percepto-cognitive, and psycho-social bases of human movement as they do. Prereq: 1011 or 1012.

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


3560 Human Growth and Motor Development (3) Structural and functional changes in man from birth to old age, and emphasis on physical performance and skill development.


3610-20 Individual and Dual Sports (2, 2) Instruction, student teaching, and practice in organizing adults sport and recreational activities suitable for schools, churches, or community recreation centers.

3650 Teaching Strategies and Program Implementation (3) Understanding and employing teaching strategies appropriate to elementary physical education, and study of program content and implementation. Prereq: Certification in ARC Water Safety Instructor Training or Senior Lifeguard.

3660 Basic Movement Sequences for Children (3) Movement patterns and skills which are fundamental movement activity, with emphasis upon designing and presenting sequential learning tasks and creative activity experiences. Prereq: 3670. Available to dance majors and minors or with consent of instructor.

3670 Practicum in Developmental Movement for Early Childhood (3) Experiences in designing and presenting developmental movement tasks to preschool children. Prereq: or coreq. 3660.

3680 Structured Movement Activities in Elementary Physical Education (4) Self-testing, games and sports, and dance activities included in elementary school physical education program, with emphasis upon designing and presenting sequential learning experiences. Prereq: 3670.

3720 Philosophy of Physical Education and Sport (3) Introduction to form and content of philosophy of physical education and sport. Specific emphasis on determination of metaphysical, epistemological and axiological status of physical education and sport.

3910 Principles and Problems of Coaching (3) Examination of practical problems and situations which preclude students to make judgments and decisions in a coaching environment. Prereq: At least sophomore standing.

4000 Intermediate Advanced Ballet Technique (2) Emphasis on basics of technique and conditioning. May be repeated. Maximum credit 6 hours. Prereq: 3075. Available to dance majors and minors or with consent of instructor.

4100 Pre-Student Teaching Seminar (1) Oriented to 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 immediately prior to student teaching. Fall quarter student teachers complete pre-student teaching seminars spring quarter. Prereq: Accomplishment in the Teacher Education Program. Undergraduate credit only. May not be repeated for credit. S/NC only.

4005 Advanced Ballet Technique (2) Emphasis on classical variations and partnering. May be repeated. Maximum credit 6 hours. Prereq: 4000. Available to dance majors and minors or with consent of instructor.

4010 Advanced Modern Technique (2) Development, integration, and synthesis of previous dance vocabularies emphasized in advanced practice and problems. May be repeated. Maximum credit 6 hours. Prereq: 3030. Available to dance majors and minors or with consent of instructor.

4020 Practicum in Dance Production (2) Prereq: Consent of instructor.

4060 Advanced Composition (4) Application of compositional, production, and administrative skills culminating in the presentation of two complete choreographic works. Prereq: 3060, 4020.

4070 Stagecraft for Dance Production (2) Equipment, light design, properties, sets, and stage management.

4100 Pre-Student Teaching Seminar (1) (Same as Curriculum and Instruction 4100, Art Education 4100, Music Education 4020, English 4000, Counseling Psychology 4100, School Health 4140, Public Health 4100, and Business Education 4100.)

4110 Adapted Physical Education (3) Classification of atypical students who require modified programs in physical education, activities and class organization suitable for required or special physical education classes.

4120 Administration of Physical Education (3) Selected topics in organization and administration problems related to physical education programs in schools. Emphasis placed on human relations approach to solving problems 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 completed the quarter immediately preceding the student teaching experience. Prereq: Approval of instructor.

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

4310 Folk and Square Dance (2) Materials and methods for public schools, colleges and recreation centers.
4320 Tap Dance (2) Instruction, practice, and student teaching.
4330-40-50 Specialization Study in Physical Education (1-3, 1-3, 1-3)
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.
4450 Men's Gymnastics II (2) Development of skills on still rings, horizontal bar, trampoline, and exhibition gymnastics; 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.
4550 Methods of Teaching Dance (2) Individual work with analysis and criticism. Prereq: Senior standing and approval of instructor.
4880 Motor Behavior: A Theoretical Perspective (4) Emphasis on motor behavior from an informational processing perspective and applies current research to support theoretical base. Prereq: Senior or graduate standing or consent of instructor.
4890 Motor Behavior Laboratory (2) Provides a beginning experience in methodology and instrumentation for assessing factors related to or affecting motor learning/performance. Prereq: cons. or PE 4880 or consent of instructor. Prereq: PE 4140 and/or PE 5520 or consent of instructor.
5000 Thesis
5002 Non-Thesis Graduation Completion (3-15)
5110 Administrative Problems in Physical Education (3)
5130 Methods in Physical Education (3)
5140 Advanced Philosophy of Sport (3)
5150 Systematic Philosophic Analyses of Sport (3)
5210 Principles and Philosophy of Physical Education (3)
5220 Readings in Physical Education (3)
5230 Supervisory Problems in Physical Education (3)
5310 Analysis of Basic Motor Skills (3)
5320 Seminar in Research Techniques in Physical Education (3)
5330 Psychology of Sport (3)
5340 Motor Behavior and Skill Acquisition (3)
5410-20-30 Specialization Study in a Selected Physical Education Area (1-3, 1-3, 1-3)
5500 Advanced Kinesiology (3)
5510 Selected Topics in Anatomy (3)
5520 Advanced Adaptive Physical Education (3) Same as above, with analysis and criticism. Prereq: Senior standing and present and future needs and interests.
5530 Advanced Physiological Dimensions of Physical Activity (3)
5560 Social-Psychological Dimensions of Physical Activity (3)
5610-20-30 Seminar in Physical Education (1, 1, 1)
5650-20-30 Problems and Projects in Physical Education (1-3, 1-3, 1-3)
6000 Doctoral Research and Dissertation
6010 Seminar in Physical Education (1)
6220 Independent Research (3)
6330 Advanced Motor Behavior (3)
6410 Practicum in Kinesiology (3)
6510-20 Issues and Problems in Physical Education (3, 3)
6610 Seminar in Applied Physiology (2)
6640 Research Participation in Applied Physiology (1-6)
6810-20 Practicum (2, 2)

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)
2705 Archery (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)
2718 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 Racquetball 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 (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)
2790 Volleyball Intermediate (2)
2791 Volleyball Advanced (2)
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)

Recreation (853)

Professor: M. L. Peters (Chairman), Ph.D. Illinois
Assistant Professor: K. L. Krick, Re.D. Indiana.

1000-3000-3000 Field Practice (2-3, 2-3, 2-3) Supervised practice in an 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) Princi-
ples and practice of recreation leadership; techniques and procedures of working with individuals and groups in leisure activity. Prereq: 1000, 1100.

3140 Philosophical Foundations of Recreation (3) Examination of recreation as personal experience; the
or social, political, 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 vari-

3301 Outdoor Recreation Skills and Techniques I (3) Fundamentals necessary for safe participation in
outdoor recreation activities such as skeet shooting, hunting, casting and angling, water boating, rappelling, and backpacking. Emphasis: enjoyment of natural envi-
ronment without disturbance or destruction of plant and animal habitats. Prereq: Consent of instructor.

3302 Outdoor Recreation Skills and Techniques II (3) In instruction on conduct of outdoor recreation activities such as sailing, skin diving, caving, orienteer-
ing, and nature interpretation without disturbance of environment. Provision of outdoor recreation experiences for the handicapped. Two 1-hr. lectures and 1 2-
hr. lab each week. Prereq: Consent of instructor.

3710 Camp Counseling (3) History and philosophy of camping movement, counselor leadership and pro-
gramming skills and outdoor living skills.

3880 Social Recreation (3) Principles and practice of social recreation suitable for all age groups and appro-
riate to a variety of settings. Content includes methods of conducting low-organized and social-interaction ac-
tivities for special events and programs.

4000 Practicum In Recreation (15) Full-time practice in an approved recreation agency. Emphasis on super-
visory and administrative procedures. Prereq: 1000, 2000, 3000, senior standing. S/N/C.

4130 Recreation Administration (3) Introduction to recreation administration, including planning, person-
nel, areas, facilities, program services, finances, and public relations. Prereq: 3140, 3290, 3880 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 study. Prereq: 3140, 3290, 3880 or consent of instructor.

4310 Camp Administration (3) Program planning and organization, personnel management, camp site deve-
lopment and maintenance and camp operation for ad-
ministrators and supervisors of organized camps.

4500 Specialized Study in a Selected Area of Rec-
reation (1-9) Comprehensive study in a selected spe-
cialized area within the broad field of recreation. For
recreation students only. May be taken for variable
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)


Instructors: A. M. Griffin, M.S. Tennessee; D. D. McCampbell, M.S. Tennessee; N. E. Tedder, M.S. Minnesota; G. D. Tyler, M.S. Tennessee; M. K. Warden, M.S. Tennessee.


The undergraduate programs in the Department of Special Education and Rehabilitation provide the general professional courses for the preschool education of candidates for certification. The undergraduate program provides for the general professional courses in the teaching of children with special educational needs. Facilities are available for continuous observation and participation in directly related to the needs of exceptional children. Facilities are available for the handicapped and exceptional children who are hospitalized, homebound, in residential schools, special classes, or regular classes.

Course sequences may be planned in the areas of (1) Special Education; (2) Educational; (3) General Education; (4) Rehabilitation Counseling Education.

Speech and Hearing: 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: 3330, 3410, 4120, 4130, 4150, 4350, 4351, 4440, 4520, 4610, 4740, 4860, 4861, 4882, 5260, 5260.

The Hearing Impaired: 2110, 2120, 3320, 4190, 4210, 4220, 4230, 4250, 4280, 4290, 4351, 4361, 4367, 4470, 4970, 4971, 4980, 5220, 5240, 5280, 5320, 5320, 5630, 5630.

Speech and Hearing: 3010, 3330, 3370, 3400, 4040, 4310, 4320, 4330, 4340, 4341, 4342, 4440, 4720, 4930. Other courses from Audiology and Speech Pathology: 3010, 3020, 3030, 3060, 3060, 4160, 4650.

Rehabilitation Counseling Education: 5100, 5110, 5115, 5120, 5140, 5145, 5146, 5147, 5150, 5160, 5170, 5180, 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/N/C.

2120 Field Experience (3) Students observe, tutor, and perform teacher-related tasks in non-special edu-
cation programs. S/NC.
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 areas of deaf child and adult. (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 curricula in reading teaching.

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 4300.)

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.)

4341 Clinical Practice in Communication Disorders in Schools (3) Prereq: Audiology and Speech Pathology 4320-30-40, Special Ed. 4039, and consent of instructor. S/NC.

4342 Seminar in Communication Disorders in Schools (3) Prereq: Audiology and Speech Pathology 4320-30-40, Special Ed. 4030, and 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 and speech problems. For students not majoring in speech—language pathology or audiology.

4610 Nature and Characteristics of Learning and Behavior Disorders (3) Forms of academic and social/behavioral disabilities: causes, and relationships to each other. Relationships with respect to personality characteristics and developmental factors interpreted through behavioral and psychodynamic theory as well as practical situations in which learning and behavior 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) Practicum scientifically identifying, observing, and recording disturbing behaviors. Initiating behavior changes regarding academic and social behaviors. To perform in a tutorial capacity within a residential classroom, and to take 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 instruction in a teacher aide capacity within regular classrooms. Particular emphasis and practice in individualizing instruction for learning and behavior problem children within the regular classroom setting. Discussion and evaluation of relevant methods and materials unique to 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 cognitive, social, economic, vocational, and educational needs of exceptional students through observation and evaluation 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 service resources.

4870 Student Teaching with Hearing Impaired Children (9) Supervised practicum with preschool, day school, and residential pupils. S/NC.

4871 Practicum with Hearing Impaired Children (6) S/NC.

4880 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, 4351, 4361, 4371, 4470. S/NC.

4881 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, 4351, 4361, 4470. S/NC.

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, 4351, 4361, 4470. 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 the Educable Mentally Retarded (9) 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 (3-9) Individual tutoring and classroom observation and teaching. Prereq. or coreq: Educ. C & 4720 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.)

4950-60-70 Problems in the Education of Exceptional Children (3, 3, 3) Prereq. 4110, 4120, 4130, 4150, 4351, 4361, 4371, 4470. S/NC.

5115 Caseload 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)

5145-49-47 Practicum in Rehabilitation (3, 3, 3)

5150-60 Internship in Rehabilitation (6, 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)

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

5510-20-30 Administrative Practicum or Problems in 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)
GRADUATE

5000 Thesis

5002 Non-Thesis Graduation Completion (3-15)

5005 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)

5040 Guidance and Pupil Personnel Services in Education (3)

5050 Supervision of Vocational-Technical Education (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)

5130-33 Problems in Vocational-Technical Education (1-4, 1-6, 1-10)

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

5155 Software Design for Microcomputers in Education (3)

5180-90-5200 Educational Specialist 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)

6030 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 3110, and/or consent of instructor. 2 hours and 2 labs.

4230-31-32 Problems in Agri-business Education (1-4, 1-6, 1-10) Total not more than 9 hours.

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

4310 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 prestudent teaching seminars spring quarter; Prereq: full admission to the Teacher Education Program. Undergraduate credit only. May not be repeated for credit. S/NC only.

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 (3) 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. 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)

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 Courses (3)

5340 Improvement of Instruction in Short-hand/Secretarial Subjects (3)

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

5360 Improvement of Instruction in Business Communications and Word Processing (3)

5380-85 Problems and Projects in Business Education (5, 5, 5)

5390 Problems in Business Education (1-5)

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

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

6360 Advanced Studies in Business Education (3)

6360 Higher Education for Business (3)

Distributive Education (273)

4410 Student Teaching in Distributive Education (9) Full-time, supervised experience in classroom
teaching, coordination, club work, and adult education. Prereq: 4460, 4478; Education 3050, Educ. Psych. 3810, 4140 or equivalent. Undergraduate credit only. S/N/C.

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. May be taken with 4410. Undergraduate credit only. S/N/C.

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 projects. May be repeated.

4450 Areas of Distribution (3) Marketing, product or service technology, social skills, basic skills, 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 program. Prereq: 4450.

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 in 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.

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

3130 Student Teaching (5) Underlying philosophy, techniques, and materials: relation to school program and community. S/N/C.

4460 Teaching in Community-Based Home Economics Programs (4) Planning and implementing 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 program area: methods, curriculum, and community. S/N/C.

4500 Field Experience in Home Economics Related Occupations (4) Supervised field experience and seminar in teaching of occupations which utilize home economics skills as knowledge. Prereq: Consent of instructor. S/N/C. 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; coreq: 4310. S/N/C.

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)

5515 Evaluation in Home Economics Education (3)

5530-31-32 Problems in Home Economics Education (1-3, 1-3, 1-3)

5540 Curriculum Development and Implementation in Family Relationships Instruction (3)

5545 Wege Earning Programs in Home Economics (3)

5550 Advanced Methods of Teaching Homemaking Classes to Adults (3)

5555 Supervision of Home Economics in the Public Schools (3)

5570-75 Seminar in Home Economics Education (3, 3)

5580 The Teaching of Home Economics in College (3)

5581 The Problem Method of Teaching Home Economics (3)

5582 Furthering Good Human Relationships in the Classroom (3)

Industrial Education

1610 Engine Analysis (3) Designed to give experimental laboratory experience in automotive technology. Engine tune-up and engine overhaul techniques and procedures are studied and practiced.

1620 Graphic Communications (3) Drafting as a means of communication in technology. Orthographic and multi-view drawing, conventional practices, pictorial techniques, and applications of photography.

1630 Basic and Applied Electricity (3) Operation and characteristics of electrical systems and devices. Construction of demonstration apparatus and various electrical projects involving function of different types of circuits.

1640 General Metals (3) An introductory course dealing with processes, equipment, materials, products, and organization of metal-working industries. Involves processes in basic machining, foundry, sheetmetal, forging, heat treatment, arc and gas welding, fabrication, and the use and care of common metalworking tools.

1642 Welding and Cutting Practices (3) Prereq: 1640.

1681 General Woodworking (3) Basic course dealing with processes, tools, equipment, products, organization of woodworking industry. Stresses importance in safety and using hand tools and basic machinery.

2511 Power Mechanics (3) Includes various prime movers, methods of utilization, distribution and transmission of power with internal combustion engines. Maintenance and repair of small engines is stressed.

2620 Industrial Graphics (3) Auxiliary views, sections, conventional practices, fasteners, dimensioning, working drawings, and machine drafting. Prereq: 1620.

2630 Fundamentals of Applied Electronics (3) Electrical circuit analysis and introduction to semi-conductor and IC applications, including amplifiers, switching and timing circuits, and oscillators. Prereq: 1630.

2652 Electronics Technology (3) Basic principles and application of electronics. Undergraduate credit only.

2641 Machine Tool Processes (3) Introductory course of the function, care, setup, operation, and theory of basic machine tools. Prereq: 1640.

2652 General Plastics (3) Characteristics of thermoplastics and thermosetting materials, methods of determination, and resin conversion to finished product.

2660 Furniture and Cabinet Construction (3) Comprehensive study of cases and carcass construction with emphasis placed upon furniture and cabinetry. Prereq: 1610.

2680-01-02 Basic Experiences in Trade and Industrial Education (3,3,3) Methods and materials of instruction. 3 periods.

3612 Automotive Mechanics (3) Advanced laboratory experience in tune-up, overhaul, transmission, and the suspension system. Prereq: 1610.

3620 Architectural Graphics (3) Introduction to fundamentals of graphic representation and residential architecture. Light construction principles are stressed and working drawings for a residential building are developed. Prereq: 1620.

3630 Digital Electronics Technology (3) Basic principles and application of digital electronics. Prereq: 2650 or permission of instructor.

3640 Advanced General Metals (3) Provides experiences in various processes of forming of metals, molding and metal finishing, tool grinding, heat treatment, fabrication, and precision measurement. Prereq: 2650.

3650 Welding, Brazing, Cutting, and Related Processes (3) Various types of welding equipment and fundamental techniques of welding. Undergraduate credit only.


3662 Construction Methods and Materials (3) Materials, methods, and equipment used in residential construction, including location and evacuation, founding, framing, rooing, 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.

3682 Photographic Processes for Planographic Printing in Industrial Arts (3) Principles of basic photography for industrial arts teachers. Includes theory, practical service in SLR work, camera copy preparation, fine photography, halftone photography, layout, stripping, platemaking, and offset presswork. Prereq: 2672.

3810 Related Science, Mathematics, and Technology in Occupations (15) Prior department approval for registration. Applicants must show evidence of bonafide occupational experience compatible with the requirements of the course. Occupational experience must be in a recognized trade area. S/N/C.

3811 Manipulative Skills in Occupations (15) Prior department approval for registration. Applicants must show evidence of bonafide occupational experience compatible with the requirements of the course. Occupational experience must be in a recognized trade area. S/N/C.

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/N/C.

3820-21-22 Physical Testing Technology (3, 3, 3) Skills and techniques involved in radiography, metallography, tension and compression testing, and other destructive and non-destructive testing methods. Undergraduate credit only.

3830 History and Philosophy of Industrial Education (3)

3940-41-42 Part-time Programs in Cooperative Industrial Education (3, 3, 3) Principles of organization, methods, and materials.
3850 Shop Organization and Management (3)

3860-61 Materials and Methods for Teachers of Shop and Related Subjects (3, 3)

3870 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 circuitry. Emphasis is placed on circuit analysis, trouble-shooting, and synthesis of systems, including microprocessor applications. Prereq: 3600.

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, 2660, 3651, 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 selection and arrangement of course content. Emphasis upon instructional objectives, project selection and informational assignments and evaluation. Prereq: Consent of instructor.

4800-02-03 Tools and Machine Design (3, 3, 3) Tool and machine design, calculations, design systems, and designing procedures. Undergraduate credit only.

4810 Directed Teaching (6) 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.

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, following up results of job analyses, preparing checking sheets and individual job sheets in both trade and related subjects. Prereq. or coreq: 4120.

4860-61-62 Problems in Industrial Education (3, 3, 3)

4870 Numerical Control (3) Tooling, manual programming, automatic programming, automatic programming 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 other topics associated with the field of industrial education.

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.

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)