The College of Education

William H. Coffield, Dean
C. Glennon Rowell, Associate Dean
Thomas W. George, Acting Assistant Dean

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, the Southern Association of Colleges and Schools, and the Tennessee 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 in 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.

Admission to Teacher Education

All students are required to apply for Admission to Teacher Education after earning a minimum of 60 quarter hours or in their first quarter if a transfer student with more than 80 quarter hours. Admission to Teacher Education will be a prerequisite for enrollment in many upper-division College of Education courses that are required for a professional curriculum.

The criteria include:
1. Speech and Hearing. Completion of a speech and hearing exam.
2. G.P.A. Students must have a 2.2 cumulative grade point average and a 2.2 UTK average in order to be admitted to Teacher Education. In addition, students must have a 2.2 cumulative G.P.A. and a 2.2 UTK average at the end of the quarter immediately preceding the student teaching quarter.
3. Social-Emotional Evaluation. Students will be required to undergo a social-emotional evaluation. Students whose scores on selected instruments are extreme variations from established norms for those instruments will be required to undergo further evaluation. Data resulting from the social evaluation will be reviewed by the Admissions and Retention Committee as one factor to be used in reaching a decision regarding continuance of the student in the Teacher Education Program.
4. Student Conduct. At the point of a student’s application for admission to Teacher Education, any record established by the student in the Office of Student Conduct regarding misconduct for persons who will be working as teachers of youngsters. Additional information may be sought when deemed appropriate. In addition, this review will be repeated the quarter prior to student teaching. Primary consideration will be given to the implications of misconduct for persons who will be working as teachers of youngsters.
5. Field Experience. Students will be required to have a field experience prior to...
students preparing for a teaching career in Tennessee must pass a standardized test of basic skills (mathematics, reading, and language) prior to admission to teacher education programs. The University of Tennessee will administer such tests each quarter to allow students planning to enter teacher education programs to fulfill this certification requirement of the State Board of Education.

Admission to Student Teaching

Application for all student teaching programs must be filed no later than January 1 of the academic year preceding the actual experience. For example, if a student plans to student teach during the 1980-81 academic year, application must be made by January 1, 1980. Applications for student teaching may be completed at approximately five times during 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 appropriate time regardless of their status in the process of admission to the Teacher Education Program.

Before admission to the student teaching quarter, the student must have fulfilled the following requirements:

1. Full admission to the Teacher Education Program not later than the quarter preceding student teaching (i.e., all conditions relative to admission satisfied).
2. Completion of the professional core courses (Education 3010, 3020, 3030 and Educational Psychology 4230 or 3810).
3. Completion of field experiences required in the program curriculum.
4. Completion of at least 90 percent of course work in the endorsement area(s).
5. Completion of the special methods courses at The University of Tennessee.
6. Completion of the Student Teaching Seminar and the September experience (non-credit).
7. Senior standing and a minimum grade point average of 2.0 on work completed at The University of Tennessee.
8. Satisfactory performance of the student teaching experience.
9. A minimum grade point average of 2.0 in the teaching field(s).
10. A minimum grade point average of 2.0 in the course work leading to certification.
11. Completion of all methods courses in each area of endorsement.
12. Fulfillment of all special recommendations of the Committee on Standards and Admissions.
13. Completion of the National Teacher Examinations.

Undergraduate Curricula

The college offers courses leading to the Bachelor of Science in Education and to eligibility for teacher certification in Tennessee and in those states which grant reciprocity privileges to graduates of institutions accredited by the national Council for Accreditation of Teacher Education (NCATE).

A core of studies provides the foundation for specialization in all teacher education curricula. In addition, approved concentrations must be completed in subject fields specifically related to the public school curriculum. A choice is to be made among programs leading to recommendation for certification at one of three levels: elementary (kindergarten-9), secondary (grades 7-12), or special subjects in grades 1-12.

Courses in library science are available to students who are interested in beginning positions in any library or in preparation for further graduate study in professional librarianship. The minimum requirements for full-time librarianship in any size school in Tennessee can be met through completion of the basic library service courses (3510, 3520, 3020, 4140, 4130, 4270, 4320, 4750). Endorsement as a librarian requires 27 quarter hours in library science. At the undergraduate level, only a minor in library science is available. Students in the college will select an appropriate curriculum from those outlined under the undergraduate curriculum section. Students interested in this program should consult with a member of the faculty of the Graduate School of Library and Information Science.

The University of Tennessee Graduate School 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.

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 location desired by the student; however, 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 adviser first. If they agree that the substitution is an appropriate one, the substitution request form should be forwarded to the Office of the Associate Dean for Undergraduate Programs, 212 Claxton Education Building. Approved petitions are forwarded to the Dean of Admissions for further approval, and for filing in the Records Office.

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. 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 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 Committee on Standards and Admissions.
6. Completion of the National Teacher Examinations.

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 Library Science, the Specialist in Library Science degree, and the Doctor of Education, and the Doctor of Philosophy degree. For further information, see the Graduate Catalog.
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.

I. Curricula for Elementary Teachers

A. Kindergarten through Grade 8

**General Education**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Communication</td>
<td>12</td>
</tr>
<tr>
<td>English 1010 or 1011; 1020 or 1022</td>
<td>3</td>
</tr>
<tr>
<td>English 1030; 1031; 1032 or 1033</td>
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**Mathematics**

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<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Mathematics 2105, 2106, 2107</td>
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**Science**

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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Physical Science 2120, 2122</td>
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**Humanities**

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<th>Course</th>
<th>Hours</th>
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<tr>
<td>English 1010 or 1011; 1020; 1031 or 1032; 1033</td>
<td>3</td>
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<tr>
<td>History 1010 or 1011; 1020; 1031 or 1032; 1033</td>
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**Electives**

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<th>Course</th>
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<td>Electives</td>
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**Physical Education**

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<td>Physical Education 2100, 2110</td>
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**SPECIALIZED COURSES**

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<th>Course</th>
<th>Hours</th>
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<tr>
<td>Physical Education 2100, 2110</td>
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**TOTAL MINIMUM REQUIRED**

| Hours | 192 |

**I. Kindergarten through Grade 8 Certification**

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<th>Course</th>
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<tr>
<td>Early Childhood Education 2510, 2520, 2530.</td>
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<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>Elementary 2105, 2106, 2107</td>
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**II. Joint Elementary- Mathematics Education Certification**

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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Language Arts</td>
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| Hours | 192 |

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

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>General Education</td>
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<table>
<thead>
<tr>
<th>Course</th>
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**TOTAL MINIMUM REQUIRED**

| Hours | 192 |

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</tbody>
</table>

**TOTAL MINIMUM REQUIRED**

| Hours | 192 |
a. 45 quarter hours in English, including three in Mathematics recommended for students who will take 20-30 and 30-40, and 12 hours in psychology. Requires admission to Teacher Education Program.

b. 27 quarter hours in another subject.

a. 36 quarter hours in one language with no less than 12 quarter hours of upper-division courses.

b. 27 quarter hours in another language with no less than 18 quarter hours of upper-division courses.

c. 8 hours of general and applied linguistics.

d. Foreign Language Major and Minor

(1) Mathematics (36 hours)—must include at least a one-year sequence in calculus or analytic geometry and calculus and at least 12 quarter hours in courses numbered 3500 or above with at least one course in algebra and one in geometry. Students enrolled in this program must take two English methods courses: Education C & I 3657 and 3658.

b. Foreign Language Education

(1) Mathematics (27 hours)—must include at least a one-year sequence in calculus or analytic geometry and calculus and at least 12 quarter hours in courses numbered 3500 or above with at least one course in algebra and one in geometry. Students enrolled in this program must take two English methods courses: Education C & I 3657 and 3658.

b. Mathematics and Related Sciences (72 hours)

(1) Mathematics (24 hours)—must include at least a one-year sequence in calculus or analytic geometry and calculus and at least 12 quarter hours in courses numbered 3500 or above with at least one course in algebra and one in geometry. Students enrolled in this program must take two English methods courses: Education C & I 3657 and 3658.

b. Mathematics and Computer Sciences (72 hours)

(1) Mathematics (24 hours)—must include at least a one-year sequence in calculus or analytic geometry and calculus and at least 12 quarter hours in courses numbered 3500 or above with at least one course in algebra and one in geometry. Students enrolled in this program must take two English methods courses: Education C & I 3657 and 3658.
### V. Physical Education, Recreation, and Safety

#### A. Concentration in Elementary Physical Education

<table>
<thead>
<tr>
<th>Topic</th>
<th>Hours Required</th>
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<tbody>
<tr>
<td>Health and Physical Education</td>
<td>1-6 hours</td>
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<tr>
<td>Psychology 2500</td>
<td>3-4 hours</td>
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#### B. Minor in Elementary Physical Education

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<th>Hours Required</th>
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<tbody>
<tr>
<td>Physical Education</td>
<td>1-4 hours</td>
</tr>
<tr>
<td>Psychology 2500</td>
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#### C. Concentration in Secondary Physical Education

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<td>Psychology 2500</td>
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</table>

### Health and Safety (3 hours)

- Physical Education 2070, 3040, 3070, 3090, 3151; 2040-50-60 or 3060-61-62; 4 hours selected from: nutrition, first aid, health education, safety, or public health education.

### Cultural Arts (22 hours)

- English 1010 or 1011; 1020; 1031 or 1032 or 1033; 1034 or 1044; 2111-21-33-34; 2113-23-33; 2340; piano or organ 22 hours; voice 6 hours; required ensemble 11 hours 208-209 hours

### TOTAL MINIMUM REQUIRED: 198-209 hours

### GENERAL EDUCATION REGULATIONS FOR ALL MUSIC EDUCATION STUDENTS

- Required participation, with credit or as a regist- ered auditor, in a major instrumental or vocal ensemble, in a band or orchestra, or in a group of residence (on-campus or off-campus) music or non-music students, as directed by the student’s advisor and the directors of the organization or program.

### A. Minor in Elementary Physical Education

- Required participation, with credit or as a regist- ered auditor, in a major instrumental or vocal ensemble, in a band or orchestra, or in a group of residence (on-campus or off-campus) music or non-music students, as directed by the student’s advisor and the directors of the organization or program.

### B. Transfer students must take proficiency exami- nations in elementary music, theory, and aural training and electives prior to registration in music education curricula.

### D. Minor in Secondary Physical Education

- ED.P. 4120; 4140; 4390; 3101 or 3102 or 3103; 4390; 4410 or 4430; 3100; 3120; 3102; P.S. electives (2 hours) 118 hours

### E. Minor in Coaching (28-31 hours)

- ED.P. 3210-30-31; 4010, 4020; 4020, 4030, 4040, 4050, 4060, 4070, 4080; Psychology 2500; 3-4 hours

### TOTAL MINIMUM REQUIRED: 198 hours

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1. Requires admission to Teacher Education Program.
2. Required admission to Teacher Education Program.
3. Consult catalog regarding prerequisites.
4. Major in Dance
5. Minor in Dance
6. Concentration in Recreation
7. Select from: chemistry, physics, geology, biology, or environmental science.
TOTAL MINIMUM REQUIRED ..........192 hours

3070, 4130, 4150, 4410, 4150; Art education 2100, 2210-20, 3110, 3920-30,

Field Study 21-24 hours

3600, 3000, 4000, 3880.

4150, 4215, 4250, 4320, 4341, 4360.

Dramatics: Theatre 1910-20, 4110, 4120, 4130, 4150; Art education 2100, 3210, 3920-30, 4150, 4160.


Drama: Theatre 1910-20, 2111, 2112-21.

Model: Marks Education 4410, 2100, 1010-20, Music 1500 through 1598 applied music series.

Sports: Physical education—team sports, 3 in-"translation: 2 tribute to the above requirements (17) hours.

FREE ELECTIVES: to be added to above require-

Mental Health and Physical Education (18 hours)

Health and Safety (3 hours minimum)

P.E. 1100, School Health 3510, P.E. 4110, 3430, 4110, 3420, 3620.

Psychology (4 hours)

Special Education 3333, 3520, 4110, 4120, 4130, 4351, 4361, 4440, 4610, 4740, 5260, 5620.

Student Teaching in Elementary Schools (9 hours): Edu. C & 14810* (regular classroom with non-

requirement for the major: 12 hours in Library and Information Science)

Creative Writing: English 2010, 2120, 2120 or Political Science 2910 or 3520.

Sopiology: 9 hours

SPECIALIZED PROFESSIONAL EDUCATION ..........24 hours

Education C & 14700 Education C & 4710 and 4720 Educational Psychology 3810

EDUCATION ..........................21 hours

EDUCATION ..........................24 hours

English: any 4 hours from literature

Psychology or Educational Psychology (9 hours):

Public health required courses (9): 3410, 3420, 3620.

Public Health elective courses (6): 3910, 4410, 4510.

Teaching and School health required courses (6): 2310, 3410, 3420, 3620.

School health required courses (6): 2310, 3410, 3420, 3620.

3410, 3420, 3620.

3110, 3920-30, 4150, 4160.

3910-20, 3920-30, 3050-60, 3070, 4200.

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3050-60, 3070, 4200.

FORMATION OF PROGRAM: 
1. Transfer students will follow the same admission procedures as freshmen. 
2. The Program Screening Committee will review each student's transcript. 
3. Formal admission to the Program will be granted after the Program Screening Committee and the College Appeals Committee have considered the above criteria and the student's academic performance.
4. A comprehensive examination in Sign Language and Finger-Spelling will be offered each quarter. 
5. Transfer students will follow the same admission procedures as freshmen.

1. Specialization in Early Childhood Development GENERAL EDUCATION 
Comm. 1001, 1010, 1020, 1031 or 1032. Language (8); biological science (8); electives (6). 

2. Specialization in Secondary Education GENERAL EDUCATION 
Communication (9 hours) 
English 1011 or 1012; 1020; 1031 or 1032. Mathematics (3 hours) 
Mathematics 2110. 

AREA OF CONCENTRATION: 
1.4 hours. 

Students interested in majoring in a specific field should consult with the advisor at the start of the program.

AREA OF CONCENTRATION: 
1.4 hours. 

Students interested in majoring in a specific field should consult with the advisor at the start of the program.

1. Specialization in Early Childhood Development GENERAL EDUCATION 
Comm. 1001, 1010, 1020, 1031 or 1032. Language (8); biological science (8); electives (6). 

2. Specialization in Secondary Education GENERAL EDUCATION 
Communication (9 hours) 
English 1011 or 1012; 1020; 1031 or 1032. Mathematics (3 hours) 
Mathematics 2110. 

AREA OF CONCENTRATION: 
1.4 hours. 

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1. Specialization in Early Childhood Development GENERAL EDUCATION 
Comm. 1001, 1010, 1020, 1031 or 1032. Language (8); biological science (8); electives (6). 

2. Specialization in Secondary Education GENERAL EDUCATION 
Communication (9 hours) 
English 1011 or 1012; 1020; 1031 or 1032. Mathematics (3 hours) 
Mathematics 2110. 

AREA OF CONCENTRATION: 
1.4 hours. 

Students interested in majoring in a specific field should consult with the advisor at the start of the program.

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1. Specialization in Early Childhood Development GENERAL EDUCATION 
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Communication (9 hours) 
English 1011 or 1012; 1020; 1031 or 1032. Mathematics (3 hours) 
Mathematics 2110. 

AREA OF CONCENTRATION: 
1.4 hours. 

Students interested in majoring in a specific field should consult with the advisor at the start of the program.

AREA OF CONCENTRATION: 
1.4 hours. 

Students interested in majoring in a specific field should consult with the advisor at the start of the program.
Certification.

quarter. Total 200 clock hours necessary for State See Speech and Hearing Center staff for assignment each Requires admission to Teacher Education Program.

4342. 3200, 4610, 4650.

Audiology and Speech Pathology 3010, 3050, 3065, TEACHING AREAS AND ELECTIVES General Psychology 2500.

Biological or physical science sequence. Mathematics 1540 and 1550.

Natural Science (12 hours).

Mathematics (3 hours).

Natural Science (12 hours).

Mathematics (3 hours).

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

Health and Physical Education (9 hours).

Social Studies (12 hours).

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

PROFESSIONAL EDUCATION ....10 hours

Special Education 4341, 4342.

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

VI. Vocational-Technical Education

A. Business Education See curricula for Secondary Education (1-12) p. 103 for General Education and Professional Education.

65-quarter hours in business and economics to meet five business education areas approved by the department. A statement of requirements and alternative programs may be obtained from the chairman of the business education program.

B. Distributive Education GENERAL EDUCATION ....67 hours

COMMUNICATIONS REQUIREMENTS ...12 hours

COMMUNICATIONS REQUIREMENTS ...12 hours

Health and Physical Education (9 hours).

Social Studies (12 hours).

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

PROFESSIONAL EDUCATION ....10 hours

Special Education 3333; Ed. Psych. 3810.

E. Vocational Home Economics Education See page 154 for this program.

D. Agricultural Education See page 56 for this program.

Departments of Instruction

Art and Music Education


Art Education (141)

1051 Field Experiences in Teaching Art (3) Field experiences in which students perform tasks related to teaching and to teacher roles. S/NC may be repeated for credit.

2110 Introduction to Art Education in the Schools (3) Art grades 1 through 12, growth and development of art education, evaluation. Experiences with school media. 1 hr and 2 labs.

2110 Drawing, Painting, and Design Activities in Elementary School (3) Prereq: 2101. 1 hr and 2 labs.

2110 Drawing, Painting, and Design Activities in Junior and Senior High School (3) Prereq: 2101. 1 hr and 2 labs.

1010 Crofts in the Elementary School (3) Prereq: 2101. 1 hr and 2 labs.

3511 Field Experiences in Teaching Art (3) Field experiences in which students perform tasks related to teaching and to teacher roles. S/NC may be repeated for credit.

3909 Clay in School Program (3) Explorations of processes of working, staining, building, and silk screening. Prereq: 2101. 1 hr and 2 labs.

4150 Lettering, Posters, and Displays in the School (3) Explorations of uses of materials. Prereq: 2101. 1 hr and 2 labs.

4120 Dawning of Teaching Aids for Art in School Program (3) Planning, preparation, and production of charts, exhibits, slides, and films, other teaching aids for art grades one through twelve. Prereq: 2101 or consent of instructor. 1 hr and 2 labs.

4130 Three-Dimensional Design in School Program (3) Explorations of processes of working, staining, building, and silk screening. Prereq: 2101. 1 hr and 2 labs.

4140 Lighting, Posters, and Displays in the School (3) Design and layout, techniques and pro-
The curricula in music education provide for five areas of concentration: vocal music (voice principal); vocal music (organ principal); elementary music education (voice principal); elementary music education (organ principal); and instrumental music.

1010-20 Choral Laboratory (1,1,1) 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 or special education. 5 hrs.

2411-13 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 hrs per week.

2412-22-23 Methods, Materials, and Techniques of Brass Class Instruction (2,2,2) Structure, use, techniques of playing, care and repair of principal instruments in school instrumental organizations. Emphasis on techniques necessary for basic understanding and effective teaching of the instruments. Practical use of current instructional materials. 2 hrs per week.

2432 Methods, Materials, and Techniques of Percussion Class Instruction (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 hrs per week.

2110 Teaching Music in the Primary Grades (3) Singing, rhythmic, instrumental, listening, 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.

3100 Teaching Music in the Intermediate and Upper Grades (3) Singing, rhythmic, 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.

3110 Teaching Music in the Elementary School (3) Singing, rhythmic, instrumental, listening, creative and music reading activities; evaluations; materials appropriate for grades K-6. For music education majors only. Prereq: 2110, Educ. Psych. 2430 or 3610; and 2 years of music theory.

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


3151 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.

4350-40-70 Problems in Music Teaching (3,3,3) Emphasis on techniques necessary for basic understanding and effective teaching of the instruments; care and repair of principal instruments; and materials for the classroom music room. 2 hrs and 1 lab.

4450-30 Choral and Instrumental Conducting (3,3) Reading, conducting, and interpretation of vocal and instrumental scores suitable for school, church, and community groups. 4540—vocal instrumental music. Prereq: 1010-20 and 3 hrs of credit from 2411-21-31 series and two years of music theory. Must be taken in sequence. 2 hrs and 1 lab.

4411-42-43 Teaching Class Piano (1,1,1) For majors in music education, vocal or instrumental music. Prereq: Approval of instructor. 2 hrs and 1 lab.

4460 Music in Special Education (3) Techniques and materials for providing arts education for students with exceptional needs. Prereq: Consent of instructor.

4570 Research in Music Education (3) Research methods and techniques related to research in music education. Prereq: 5000 or 5510 and consent of instructor. 3 hrs.

5060 Adult Education: A General Survey (3) Designed for resident assistants, student teachers, and other music education majors. Prereq: 2100 or 2110. 3 hrs.

5090 Practicum in College Student Personnel (3) Designed for resident assistants, student teachers, and other music education majors. Prereq: 2100 or 2110; Educ. Psych. 2430 and upper-division standing. 3 hrs.
Undergraduate programs in the Department of Curriculum and Instruction provide a professional preparation for the preserve education of teachers in elementary and secondary schools.

1410 Efficient Reading and Study Skills (1) Improvement of reading and study skills.

2100-25-65 Field Study in Education (3) Prerequisites: Library and Information Science 2100, 2510, 2520 or equivalent. Undergraduate credit only.

3031-22-33 Field Experiences in Teaching: Secondary (1, 1, 1) Field experiences in which students perform tasks related to teaching and teacher roles. Must be taken before student teaching. Prereq: or coreq: 3511--Ed Psych 2430 to be taken before or concurrently. Prereq: 3523--Ed C & 13631. Admission to Teacher Education.

3031-31-32 Field Experiences in Teaching: Social Foundations and Curriculum (3) Methods and materials in teaching of social studies, history, government, and community relationships, and school organization.

3110 History and Philosophy of Education (3) Role of philosophy in education: education, higher learning, training, and other contemporary movements. Undergraduate credit only.

3200 Principles and Organization of Education (3) Relation to current educational problems and practices; organizational patterns, financing of public education, professionalization of teaching. Undergraduate credit only.

3205 Social Foundations and Curriculum (3) A survey of the influence of society upon the teaching and learning of subjects in the curriculum. Undergraduate credit only.


3150 Analysis of Teaching (3) Use of interaction analysis for the clear and precise verbal interaction changes between teacher and student; related non-verbal behavior and techniques. Undergraduate credit only.

3151-32-33 Teaching as a Profession (3) Emphasis upon the development of instructional skills. Teachers teach a selected lesson, which is observed and evaluated by the instructor and peers. Undergraduate credit only. Should be taken prior to or concurrently with CM 3260; Prereq: Educ. Psych. 2430 or equivalent, admission to Teacher Education.

3270 Teaching Social Studies in the Elementary School (3) Methods and materials in teaching social studies in the elementary school. Undergraduate credit only. Should be taken prior to or concurrently with CM 3260; Prereq: Educ. Psych. 2430 or equivalent, admission to Teacher Education.

3290 Teaching Language Arts in the Elementary School (3) Methods and materials in teaching language arts in the elementary school. Undergraduate credit only. Should be taken prior to or concurrently with CM 3260; Prereq: Educ. Psych. 2430 or equivalent, admission to Teacher Education.

3240 Teaching Developmental Reading in the Elementary School (3) Beginning course in second sequence designed to develop skills and understanding necessary for opening of successful developmental reading program in the elementary school. Prereq: Educ. Psych. 2430 or equivalent and admission to Teacher Education.

3511 Teaching Developmental Reading in the Elementary School (3) Second course in second sequence designed to develop skills and understanding necessary for opening of successful developmental reading program in the elementary school. Prereq: 3240.

3310 History of Education in the United States (3) A study of the development of the American school system and the social and cultural forces influencing it. Undergraduate credit only.

3350 Teaching Arithmetics in the Elementary School (3) Principles and methods of teaching in the field of fundamental mathematics. Undergraduate credit only.

3510 Books and Related Materials for Children (3) Some of the literature in the fields of written and visual communication. Undergraduate credit only.

3121-12-13 Field Experiences in Teaching: Elementary (1, 1, 1) Field experiences in which students perform tasks related to teaching and teacher roles. Must be taken before student teaching. Prereq: or coreq: 3511--Ed Psych 2430 to be taken before or concurrently. Prereq: 3523--Ed C & 13631, 3512. Admission to Teacher Education.

3380 Books and Related Materials for Young People (3) Some of the literature in the fields of written and visual communication. Undergraduate credit only.

3522-22-33 Field Experiences in Teaching: Secondary (1, 1, 1) Field experiences in which students perform tasks related to teaching and teacher roles. Must be taken before student teaching. Must be taken in sequence. Prereq: 3523 and 3525 are required for admission to Teacher Education.

3531-30-33 Field Experiences in Teaching: Social Foundations and Curriculum (3) Social, political, economic and educational forces which shape the educational system. Prereq: 3110-31-32. Undergraduate credit only.

3560 Teaching Speech and Drama, Grades 7-12 (3) For description, see 3563.

3562 Teaching of Modern Foreign Languages: Oral Communication Skills, Grades 7-12 (3) Students who successfully complete this course and Educ. C & 13657 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 and Educ. C & 13658. Must be taken concurrently with 3562.

3564 The Teaching of Social Studies, Grades 7-12 (3) Principles, techniques, materials, and evaluation of social studies as a field of study. Prereq: or coreq: 3280. Undergraduate credit only.

3565 The Teaching of Mathematics in Elementary School (3) Developmental and diagnostic procedures in teaching elementary mathematics. Developmental and diagnostic procedures in teaching elementary mathematics.

3566 The Teaching of Science, Grades 7-12 (3) For description, see 3563.

3567 Teaching Language, Composition, and Evaluation, Grades 7-12 (3) For description, see 3563. Both this course and Educ. C & 13658 are required for certification in English.

3648 Teaching Reading, Literature, and Listening, Grades 7-12 (3) Students who successfully complete this course and Educ. C & 13657 are required for certification in English.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>5896</td>
<td>Practicum Experience in Instructional Media (3)</td>
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<td>5710</td>
<td>Techniques of Research in Education (3)</td>
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<td>5720</td>
<td>Classroom Observation and Analysis (3)</td>
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<td>5790</td>
<td>Career Development: Workshop (1-6)</td>
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<td>5800</td>
<td>Seminar in Cooperative Curriculum Research (3)</td>
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<td>5841</td>
<td>Trends and Issues in Early Childhood Education (3)</td>
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<td>Problems in Education: Early Childhood (3)</td>
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<td>Mathematics in Early Childhood Education (3)</td>
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College of Education 113
6190 Administration in Higher Education (3)
6230 Program for the Professional Preparation of Educational Administration and Supervision (3)
6340 Current Trends in School Law (3)
6260 Instructional Supervision—School District (3)
6420 School Board/Superintendency Relationship (3)
6440 School Business Management (3)
6450 Grant and Contract Proposal Preparation (2)
6480 School Personnel Administration (5)
6490 Special Topics in School Personnel Administration (3)
6500 Futuristic Educational Planning Methods (2)
6540 Contemporary Economics and Educational Finance (3)
6509 State-Federal Relations in Education (3)
6560 Legal Foundations of Public Education (2)
6568 Seminar in Managing Conflict (3)
6780-69-70 Independent Studies in Educational Administration and Supervision (5, 3, 3)
6800 Administration of Complex Educational Organizations (3)
6870 Advanced Study in School Faculty Planning (2)
1900 Special Topics (3)
6981 Specialized Seminar: School Operation (3)
6982 Specialized Seminar: Higher Education (5)
6983 Specialized Seminar: State School Administration (3)
6984 Specialized Seminar: Preparation Programs (3)
6990 Specialized Doctoral Seminar in Politics of Education (5)
6991 Specialized Seminar: Theory (5)
6992 Specialized Seminar: Finance (3)
6994 Specialized Seminar: Business Management (3)
6995 Specialized Seminar: Personnel (3)
6996 Specialized Seminar: School Plant (3)
6997 Specialized Seminar in Organization and Strategic Planning (3)
6998 Specialized Seminar: School Law (2)
6999 Specialized Seminar: Supervision (3)

Educational and Counseling Psychology

Professors
L. M. DeFleur (Head), Ph.D., Michigan; S. C. Oetz, Ed.D., Arizona State; W. M. Holbert, Ph.D., Northwestern; E. W. McClain, Ph.D., Texas; P. V. Provenzo, Ed.D., Ohio State; J. L. Powers, Ph.D., Minnesota; R. L. Williams, Ph.D., Georgia Peabody.

Associate Professors

Assistant Professors
G. D. Cleghorn, Ed.D., Tennessee; S. H. Frankel, Ph.D., SUNY (Stony Brook); C. W. George, Ed.D., Tennessee; W. M. Holbert, Ph.D., Northwestern; W. C. Johnson, Ph.D., Oregon; J. K. Knight, Ed.D., Tennessee; P. G. Kluiken, Ph.D., Florida; M. C. McMeen, Ph.D., Florida State.


Graduate Programs

6990 Practice Seminar for Educational Psychology Students (3)
6991 Seminar in Educational Psychology (2)
6992 Seminar in Educational Psychology (2)
6993 Practicum in School Psychology (1)
6994 Practicum in School Psychology (1)
6995 Practicum in School Psychology (1)
6996 Practicum in School Psychology (1)
6997 Practicum in School Psychology (1)
6998 Practicum in School Psychology (1)
6999 Practicum in School Psychology (1)

6951-53, 55 Student Leadership Workshops (1, 1, 3) Series of small group and individualized experiential problem-solving workshops in group dynamics and leadership for graduate students in leadership roles. Sections are designed for resident assistants, student government leaders, student activities, and other student organizations.

6440 Specialized Field (3) Use and interpretation of standardized group instruments in assessment of intelligence, aptitude, achievement, vocational interests and personality adjustment.

6540 The Construction of Classroom Tests (3) Concerned with teacher-made classroom tests: instructional objectives, principles of test construction, interpretation, implications of test scores, relationship between testing and grading.

4700 Awareness Training (3) Readings and group exploration of the principles of awareness and the application of awareness behavior in a variety of settings.

4702 Advanced Child Study (3) Preparatory to 2430 or consent of instructor.

4690 Psychology of the Disadvantaged Child (3) Significant behavior differences and causes: appropriate intervention approaches.

4510 Psychosocial Aspects of Appalachian People (3) Exploration of psychology of people of Appalachian region through an examination of history, culture, and role of education.


4690 Differential Psychology (3) Nature and sources of individual differences in behavioral characteristics, and differences between racial, ethnic, socioeconomic, sex, and other groups.

4700 Diagnostic and Corrective Teaching (3) Teachers and supervisors study practical procedure for improving pupil's learning.

5000 Seminar

5002 Non-Thesis Graduation Completion (3-15)

5040 Guidance and Personnel Services in Education (6)

5000 Children and Adolescents (3)

5080 Group Approaches with Students (3)

5090 Field Work in School Psychology (1-4)

5101 Advanced Psychology of Adolescence (3)

5105 Developmental Psychology (3)

5110 Developmental Psychology (3)

5113-12-13 Seminar in Current Issues in School Psychology (1, 1, 1)

5120 Seminar in Bias-Free Counseling (3)

5140-58-59 Psychoeducational Assessment (3, 3, 3)

5149-59-69 Practicum in School Psychology 1, 2, 3, 4 (3, 3, 3, 3)

5140-59-500 Educational Specialist Research and Thesis (3, 3, 3)

5230 Interpreting Published Articles: Research Design

5240 Practicum in Field Work in School Psychology: Level I (2)

5320 Advanced Classroom Behavior Modification (3)

5330 Theory and Research in Human Learning (3)

5321 Current Developments in Human Learning (3)

5430 Group Dynamics (3)

5430 Experiential Applications of Cognitive Theories (3)

5890 The College Student (3)
6720 Evaluation in Education (3)
5780 Career Development: Theory and Research (3)
5785 Career Development: Program Development Implementation and Evaluation (3)
5790 Career Development: Workshop (1-4)
5840 Student Appraisal (3)
58544-70 Special Topics and Problems in Educational Psychology and Guidance (1-4, 1-4, 1-4)
5850 Career Development: Occupational and Educational Resources (3)
5885 Career Development: Field Experience (1-9)
5890 Counseling Theories and Techniques (5)
5897 Pre-Practicum (3)
5910-12-30 Problems in Lie of Thesis (3, 3, 3)
5940 Counseling Practicum (3)
5945 Group Counseling Practicum (3)
5950-60 Theory and Practice in Consultation (3, 3)
5959-69 Practicum in Consultation (3, 3)
5960 Counseling and Administration of Counselor Programs (3)
6000 Doctoral Research and Dissertation
6040 Seminar in Educational Psychology and Guidance (1)
6099 Internship (1-6)
6120 Application of Experimental Research Design (3)
6125 Seminar in Dissertation Proposal Writing (3)
6140 Seminar in Educational Psychology and Guidance (3)
6210 Introduction to Educational Resources (3)
6215 Introduction to Educational Resources (3)
6220 Application of Experimental Research Design in Educational Psychology and Guidance (3)
6225 Field Work in School Psychology: Level II (3)
6250-670 Seminar in College Student Personnel (3, 3)
6250-20 Seminar in Dissertation Proposal Writing (2, 2, 2)
6255-660 System Approaches in Psychological Services (3, 3, 3)
6259-670 Practicum in School Psychology III (3, 2, 2)
6370-670 Problems in Psychology and Guidance (3, 3, 3)
6380 Seminar in Counseling (3)
6390 Seminar in Professional Issues (1, 1, 1)
6910 Special Topics Seminar (3)
6941-42-43 Practicum in Guidance, Counseling, and Personnel Services (3, 3, 3)
6944-45-46 Teaching Practicum in Educational Psychology and Guidance (3, 3, 3)
6950 Counseling Supervision (2)

School of Physical Education and Recreation
Mudge M. Phillips, Director

At the undergraduate level, professional preparation programs are offered in health and safety, 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 Physical Education, and Recreation also provides activities programs for all students in physical education and services courses in health, safety, recreation, and dance.

Health and Safety Education


Assistants Professor: J. S. B. Bailey, C. W. A.; C. B. Hamilton, Dr. P. J. Okohama; R. J. Purnell, Ph. D., Iowa; A. F. Thompson, Ph. D., Michigan.

Drs. J. S. Elliott, E. D. Tennessee; W. K. Perry, Ph. D., Missouri; D. A. McFarland, M. P. H., North Carolina.

Public Health (639)

1111 Principles in Personal Health (3)
To develop ability to apply 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/N.

2050 Seminar in Drug Use and Abuse (2)
Intensive look at problems and use of drugs, S/N.

50708090 Field Practice and Seminar in Public Health Education (3, 3, 3)
A study of health education problems in public health education. Extensive reading of literature required.

5070-10-20 Field Practice in Public Health Education (3, 3, 3)
Field practice in public health education under supervision of public health profession, S/N.

5070-50 Field Practice Seminar in Public Health Education (3, 3, 3)

1159 Environmental Health (5)

5110 Environmental Health (3-5)

5150 Industrial Toxicology (3)

5220 Health and Sickness (2)

5310 Communicable and Noncommunicable Disease (3)

5330 Sanitation (2) History of sanitary awakening; history of relationship and control of water, sewage, refuse, milk, meat and other foods, air, insects, and soil. Control of food, swimming pools, indoor plants, markets, restaurants, camps, and public bathing places. Healthful living as affected by buildings and grounds, lighting, acoustics, thermal control, and safety provisions.

5350 Introduction to Public Health (2) Philosophy, organization, and function of public health; study of health of local and official public and voluntary public health agencies. Includes periodic field trips.

4120 Community Health Problems—Alcoholism (3)

4130 Community Health Problems—Substance Abuse (3) Study of alcoholism and other drug problems in several health of community. Emphasis placed on factors making alcoholism a serious public health problem.

4140 Community Health Problems—Suicide (3) Examination of suicide prevention and control. Review of various types of educational programs to control the disease covered.

4150 Community Health Problems—Death Education (3) Examination of ramifications of death and dying as related to personal and community health.

4120 Urban and Industrial Health (3) Health problems of community. Study of provision and design of health facilities and services in urban and industrial areas. Involves City, State, and Federal Health Department; Public and Private Health Concerns; occupational diseases; environmental health; and diseases covered.

4200 Communications for Better Health (3) Selective study of communications in health enterprises. Consideration in logical progression the problems of transmitting current and new information to practitio-

4410 Consumer and Health Education (3) Survey of consumer health and safety problems, selecting, purchasing, and financing of safety and medical services.

4411 Instructor's Advanced First Aid and Emergency Care (3) Designed to teach First Aid. Instructee's completion qualifies one for American National Red Cross Certification as an Advanced First Aid and Emergency Care Instructor. (A requirement for this certification is that an applicant must be at least 21 years of age.) Prerequisite: 2015 or 3015. Satisfactory completion qualifies one for American National Red Cross Certification as an Advanced First Aid and Emergency Care Certificate.

4412 Cardiopulmonary Resuscitation (2) Theory and practice to implement basic cardiac life support following cardiac arrest due to such conditions as heart attack, drowning, electrocution, suffocation, asphyxiation, and other accidents. Educational and preventive aspects of controlling cardiovascular disease will be stressed. (Same as School Health 4412)

4450 Drug Abuse Education (3) Drug abuse problem and suspected causes; pharmacology of drugs and alcohol; mental and physical effects; society and methods of drug abuse education.

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

5050-30 Action Seminar in Public Health Education (3, 3, 3)

4020 Administration of Public Health (3)

4345 Vital and Medical Statistics (4)

5420 Administration of Public Health (3)

551516 Food and Nutritional Education (3, 3)

5520 Health and Sickness (3)

5410 Epidemiology (3)

5540 Administration of Public Health (3)

5450 Foods and Materials in Public Health Education (3)

5540 Administration of Public Health (3)

5545 Factors in Problem Solving for Community Health (3)

5545 Factors in Problem Solving for Community Health (3)

5560 Functions and Roles of the Public Health Educator in Community Organization and Development (4)

5590 Functions and Roles of the Public Health Educator (3)

5590 Physical Activity and Health (3)

5740 Workshop in Public Health Education (3)

5785 Urban and Industrial Health (3)

5785 Urban and Industrial Health (3)

5790 Career Development: Workshop (1-4)

5840 Student Appraisal (3)

58544-70 Special Topics and Problems in Educational Psychology and Guidance (1-4, 1-4, 1-4)

5850 Career Development: Occupational and Educational Resources (3)

5885 Career Development: Field Experience (1-9)

5890 Counseling Theories and Techniques (5)

5897 Pre-Practicum (3)

5910-12-30 Problems in Lie of Thesis (3, 3, 3)

5940 Counseling Practicum (3)

5945 Group Counseling Practicum (3)

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

5959-69 Practicum in Consultation (3, 3)

5960 Counseling and Administration of Counselor Programs (3)

6000 Doctoral Research and Dissertation

6040 Seminar in Educational Psychology and Guidance (1)

6099 Internship (1-6)

6120 Application of Experimental Research Design (3)

6125 Seminar in Dissertation Proposal Writing (3)

6210 Introduction to Educational Resources (3)

6215 Introduction to Educational Resources (3)

6220 Application of Experimental Research Design in Educational Psychology and Guidance (3)

6225 Field Work in School Psychology: Level II (3)

6250-670 Seminar in College Student Personnel (3, 3)

6250-20 Seminar in Dissertation Proposal Writing (2, 2, 2)

6255-660 System Approaches in Psychological Services (3, 3, 3)

6259-670 Practicum in School Psychology III (3, 2, 2)

6370-670 Problems in Psychology and Guidance (3, 3, 3)

6380 Seminar in Counseling (3)

6390 Seminar in Professional Issues (1, 1, 1)

6910 Special Topics Seminar (3)

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

6944-45-46 Teaching Practicum in Educational Psychology and Guidance (3, 3, 3)

6950 Counseling Supervision (2)
2 labs.

3-6)

5720-30-40 Graduate Workshop in Safety (3-6,3-6,

5350 Civil and Defense Education (3)

5000 Thesis

GRADUATE

5000 Thesis

5320 Behavioral Problems in Safety Education and Accident Prevention (3)

5300 and Problems in Accident Prevention (3)

5300 Civil and Defense Education (3)

5735-35-40 Graduate Workshop in Safety (3-6,3-6, 3-8)

5819-20-30 Problems in Safety (1-3, 1-3, 1-3)

5879-99-19 Current Issues in Safety Education (1,1, 1)

6091-20-30 Internship in Research and Safety Education (3)
3309 History of Dance and the Related Arts (1) Dance history and the arts related to it from begin-
ing to present since through the 18th cen-
tury.
3310 Social Dance (3) Instruction, practice, and teaching in basic social dance steps.
3110 Athletic Coaching of Football (2) Fundamen-
tals and coaching techniques. Prereq: Approval of in-
structor.
3120 Athletic Coaching of Basketball (2) Individual and team fundamentals for the high school coach. attention given to conditioning, schedule making, and other business arrangements. Prereq: Approval of in-
structor.
3130 Athletic Coaching of Track and Field Events (2) Track and field coaching programs. Prereq: Approval of instructor.
3151 History of Dance and the Related Arts (2) Survey of dance and the arts related to it tracing their development in the 20th century.
3160 Officiating Basketball (2) Officiating appropri-
ate rules of basketball. Emphasis on know-
ledge of rules and officiating practices.
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 ex-
perience in various events of track and field. Special emphasis on teaching techniques, demonstration, progression, and analysis.
3200 Athletic Coaching of Baseball (2) Individual and team fundamentals for high school and college coach. Prereq: Consent of instructor.
3210 History and Principles of Physical Education (3) Principles from basic aspects of anatomy, bio-
technology, biology, chemistry, physical edu-
cation, and sociology applied to health, physical edu-
cation, and sport.
3220 Physical Fitness Activities (3) Teaching of common exercise and athletic activities, and weight training with emphasis on physical fitness concepts including muscular development of the body.
3230 Team Sports (2) Instruction, practice, and stu-
dent teaching in selected team sports.
3240 Athletic Training Techniques (3) Theory and practice in the prevention and care of basic athletic injuries.
3280 Practicum for Physical Education Majors (1) Observation and initial teaching, coaching, and leadership experiences in physical education programs. May be repeated. Maximum credit 10 hrs. SINR.
3320 Applied Anatomy and Kinesiology (2) Bones, joints, ligaments, and muscles in the context of move-
ments: reaction of joints and muscular mechanism to bodily development and efficiency.
3330 Blunts and Tumbling (2) Instruction and prac-
tice, student teaching and lesson planning stressed with focus upon safety techniques.
3420 Adapted Physical Education Laboratory (1) Practicum experiences, including student teaching, supple-
menting 4117.
3430 Adapted Physical Education in the Elementary School (2) Movement experiences appropriate for elemen-
tary school children: planning and teaching a de-
volutionary program.
3450 Conceptual Bases for Study of Human Move-
ment Behavior (2) Biophysical, perceptual-cognitive, and psychological forces causing humans to move as they do. Prereq: 1011 or 1012.
3520 The Teaching of Swimming and Lifesaving (2) Certification in ARC Water Safety Instructor Train-
ing or 3 hr. of related work with emphasis on additional practices in teaching of swimming.
3550 Psycho-Social Bases of Human Movement Performance (3) Factors affecting human move-
ment performance, especially that of children, and consideration of factors employed to modify that performance. Prereq: 3510.
3560 Human Growth and Motor Development (3) Structural and functional changes in man from birth to old age, and relationship of changes to physical performance and skill development.
3570 Developmental Trends in Movement Perfor-
mane of Children (3) Kinesthetic characteristics of basic movement performance in children with an em-
phasis on the changes in movement patterns as a product of interaction of biological, per-
ceptual-cognitive, and psycho-social variables. Prereq: 3540-55-60.
3600-10 Individual and Dual Sports (2, 2 instruc-
tors, student teaching, and practical experience in organizing, adult sports and recreation. Special emphasis applied to schools, churches, or community recreation cen-
ters.
3630 Teaching Strategies and Program Implementa-
tion in Physical Education (3) Emphasis on stand-
ardizing and teaching teaching strategies appro-
piate to elementary physical education: planning of program content and implementation. Prereq: 3570.
3680 Basic Movement Sequences for Children (3) Movement patterns and skills used to evoke fa-
cial to motor activity, with emphasis upon de-
vailing and sequencing sequential learning tasks and creative activity experiences. Prereq or coreq: 3550.
3780 Practicum in Developmental Movement for Early Childhood (3) Experiences in designing and presenting developmental movement tasks to pre-
school children. Prereq or coreq: 3580.
3650 Structured Movement Activities in Ele-
mentary Physical Education (4) Self-testing, games and sports, and dance activities included in elementary physical education programs. Emphasis on designing and presenting sequential learning programs. Prereq: 3570.
3720 Philosophy of Physical Education and Sport (3) Introduction to form and content of philosophy of physical education and sport. Specific emphasis on the theoretical and philosophi-
sical status of physical education and sport.
3910 Principles and Problems of Coaching (3) Principles and problems of practical problems and situations which prepares students to make judgments and decisions in coaching environment. Prereq: Approval of instructor. Prereq: Consent of instructor.
4000 Intermediate Advanced Ballet Technique (2) Emphasis on basic pointe, male technique, and partnering. May be repeated. Maximum credit 6 hrs. Prereq: 3610. Available to dance majors and minors with consent of instructor.
4050 Advanced Ballet Technique (3) Emphasis on technique and partnering. May be re-
peated. Maximum credit 6 hrs. Prereq: 4000. Avail-
able to dance majors and minors with consent of instructor.
4090 Advanced Ballet Technique (3) Emphasis on techni-
que and partnering. May be repeated. Maximum credit 6 hrs. Prereq: 3610. Available to dance majors and minors with consent of instructor.
4010 Advanced Modern Technique (2) Develop-
ment, integration, and synthesis of previous dance vocabulary: emphasis on advanced practice and principles. May be repeated. Maximum credit 2 hrs. Prereq: 3610. Available to dance majors and minors with consent of instructor.
4200 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 a complete choreographic work. Prereq: 3002, 4020.
4070 Stagecraft for Dance Production (2) Equip-
ment, light design, properties, sets, and stage train-
ing and materials for presentation of work.
4110 Adapted Physical Education (3) Classification of physical students who require modified programs in related educational curriculums and class organiza-
tion. Special emphasis given to special physical edu-
cation classes.
4120 Administration of Physical Education (3) Specialized topics in organization and administra-
tion of physical education programs related to public schools. Emphasis placed on human relations ap-
proach to working problems in administration.
4140 Measurement and Evaluation in Physical Education (3) Theoretical and practical applications of measurement and evaluation in physical education. Administration and collection of data, test analysis, and professional Skills of physical fitness, sports skills, and knowledge.
4150 Creative Rhythms for Children (3) Methods and material for grades 1 through 5. Prereq: 3180.
4160 Athletic Coaching Field Experience (2) Practi-
cal experience in coaching and related respon-
sibilities. Must be repeated. Maximum credit 4 hrs. Prereq: Consent of instructor.
4230 Program Planning in Physical Education (3) Curriculum building, course instruction, and tes-
t planning for public schools and colleges.
4160 Folk and Square Dance (3) Materials for and methods for public schools, colleges, and recre-
aton centers.
4220 Tap Dance (2) Instruction, practice, and stu-
dent teaching.
4141 Wrestling (2) Theoretical and practical work for professional teaching, emphasis on safety pro-
cedures.
4430 Women's Gymnastics (2) Development of skills on balance beam, uneven parallel bars, and high horse vaulting. Special emphasis placed on safety, progress-
ions and teaching techniques. Open to men and women. Prereq: 3350.
4440 Kentucky's Men's Gymnastics (2) Development of skills on pommel horse, parallel bars, and long horse vaulting. Special emphasis placed on safety, progress-
ions, and teaching techniques. Open to men and women. Prereq: 4430.
4460 The Coaching and Judging of Women's Gym-
astics (2) Appreciation of techniques used in the coaching and judging of women's gymnastics ac-
ademic. Special emphasis placed on safety, progress-
ion and teaching techniques. Open to men and women. Prereq: 4440.
4550 Motor Behavior Laboratory (2) Provides a be-
tween experiential and theoretical perspective applied to understanding and testing of human behavior in the context of everyday life. Prereq: Senior standing and approval of instructor.
4560 Methods of Teaching Dance (2) Individual work with analysis and criticism. Prereq: Senior standing and approval of instructor.
4680 Motor Behavior: A Theoretical Perspective (4) Experiential approach to understanding and testing of human behavior in the context of everyday life. Prereq: Senior and approval of instructor.
4690 Motor Behavior Laboratory (2) Provides a be-
tween experiential and theoretical perspective applied to understanding and testing of human behavior in the context of everyday life. Prereq: Senior and approval of instructor.
1170 College of Education
5110 Orientation to Recreation Profession (3) Overview of types, functions, and interrelationships of delivery systems for recreation and park services.

3100 Recreation Leadership Procedures (3) Principles and practice of recreation leadership, techniques and methods of working with individuals and groups in leisure activity, Prereq: 1000, 1100.

3140 Philosophical Foundations of Recreation (3) Examination of recreation as a personal expression, theories of play, philosophy of leisure and recreation, societal, educational, government, cultural, and self-realization; history of recreation movement.

3200 Planning Leisure Programs (3) Principles and methods employed in planning effective and balanced leisure programs for various settings. Prereq: Consent of instructor.

3201 Outdoor Recreation Skills and Techniques (2) Fundamentals necessary for safe participation in outdoor recreation activities such as water skiing, hunting, hiking, and backpacking. Emphasis on enjoyment, skill development, and conservation of plant and animal habitats. Prereq: Consent of instructor.

3202 Outdoor Recreation Skills and Techniques (2) Instruction in safe participation in outdoor recreational activities such as sailing, skindiving, caving, or consent of instructor.

4000 Practicum in Recreation (1-3) Full-time practice in an approved recreation agency. Emphasis on knowledge and skill development. Prereq: 1000, 2000, 3200, senior standing. S/NC.

4130 Recreation Administration (3) Introduction to recreation administration, including planning, personnel, facilities, program services, finance, and public relations. Prereq: 3140, 3200, 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 services. Prereq: 3200, 3280, 3880 or consent of instructor.

4300 Camp Administration (3) Program planning and organization, personnel management, camp operation for administrators and supervisors of organized camps.

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

GRADUATE

5000 Thesis (9)

5002 Non-Thesis Graduation Completion (3-9)

5130 Interpretation of Leisure (3)

5140 Leisure Service Delivery Systems (3)

5150 Current Issues in Recreation (3)

5240 Therapeutic Recreation (3)

5270 Administrations of Recreation Services for the Ill or Disabled (3)

5280 Leisure and Health (3)

5300 Administration of Recreation Funds (3)

5310 Analysis of Basic Motor Skills (3)
Special Education and Rehabilitation (933)


Lecturers: R. D. Roane, M. S. Tennessee; D. E. Rece, B. S. Memphis State.

The undergraduate programs in the Department of Special Education and Rehabilitation provide the general preparation courses for the preservice education of candidates for certification in meeting the needs of exceptional children. Facilities are available for continuous observation and participation in direct relationships with exceptional children who are hospitalized, homebound, in residential schools, special classes, or regular classes. Course sequences may be planned in the areas of General Special Education; (2) the Hearing Impaired; (3) Speech and Hearing; (4) Rehabilitation Counselor Education.

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

General Special Education:
3200, 3250, 3290, 4110, 4130, 4150, 4310, 4410, 4440, 4490, 4740, 4880, 4980, 4520, 4525, 4530, 4560, 4600, 4700.

The Hearing Impaired:
2110 Field Experience (1) Students observe, tutor, and perform teacher-related tasks in special education.
3110 Articulation Disorders (4) (Same as Audiology and Speech Pathology 3110)
3333 Education of the Exceptional Child (3) Principles, characteristics, and special needs local and state-level educational programs in regular and special education; home teaching, social and work adjustment.
3520 Language-Speech Handicapped Child in the Classroom (3) Recognizing and understanding classroom problems, observing normal and defective behavior, correlating speech and language development with physical development, and incorporating speech improvement activities into the curriculum. For student not majoring in speech and hearing.
2710 Audiology I (3) (Same as Audiology and Speech Pathology 2710).
4000 Rehabilitation Practice (3) Evaluation of client in rehabilitation prognoses. Prereq: 4330.
4030 The Public School Speech and Hearing Program (3) Organization, administration, and procedures.
4040 Apraisal of Speech and Language Disorders (3) (Same as Audiology and Speech Pathology 4040).
1110 The Nature and Concept of Mental Retardation (3) Identification; delinquency and study.
4110 Education of the Mentally Retarded Child (3) Philosophy and rationale underlying the teaching and guidance of the mentally retarded; methods and materials in special and regular classes. Prereq: 4110.
4120 Education of the Brain-Ijured Child (3) Nature of brain-injured child; skills for identifying physical, emotional, and expressive characteristics.
4140 Education of Children with Crippling and Special Health Conditions (3) Mechanical and educational characteristics of children with crippling and special health conditions; appropriate educational, modifications, and associated services.
4150 Education of Partially Sighted Children (3) Curricular adjustments and materials: home visits for parental cooperation in medical care and special needs.
4160 Speech Development of the Hearing Impaired (3) Auditory and language development in the hearing impaired.
4170 Language Development of the Hearing Impaired (3) Language structures in children with hearing impairment.
4180 High School Program for the Mentally Retarded (3) Trends, issues, and problem areas in special education in special education programs. S/NC.
4200 Practicum in Speech Development of Hearing Impaired (3) Application of theories and techniques of speech development and improvement with hearing impaired children. Prereq: Speech 3050. (Same as Audiology and Speech Pathology 4200).
4210 Language Development of Hearing Impaired (3) Curricular adjustments and practices.
4230 Communication Problems of the Hearing Impaired (3) Identification and management of speech and language impairments.
4240 Nature of Hearing Impairments (3) Basic principles of audiology: anatomy and physiology of the hearing system; factors influencing fluency. Prereq: Speech 3050 or consent of instructor. (Same as Audiology and Speech Pathology 4240).
4250 Nature of Hearing Impairments (3) Basic principles of audiology: anatomy and physiology of the hearing system; factors influencing fluency. Prereq: Speech 3050 or consent of instructor.
4260 Communication Disorders (4) Forms of academic and social behavior disorders, degrees of severity, possible causes, and relationships to each other; relationships with respect to personality characteristics and developmental factors. Interpretation through behavioral, psychological, and sociological theory as well as practical application in therapy, possible causes, and relationships to each other; relationship with respect to personality characteristics and developmental factors.
4270 The Nature of Mental Retardation (3) Trends, issues, and problem areas in special education in special education programs. S/NC.
4280 Curriculum Development in Elementary and Secondary Schools for the Learning Impaired (3) Adaptation of curriculum development and methods in public school education to meet needs of hearing impaired and other students in residential and integrated settings.
4290 Clinical Practicum in Speech Pathology (1-4) (Same as Audiology and Speech Pathology 4290).
4290 Clinical Practicum in Speech Pathology (1-4) (Same as Audiology and Speech Pathology 4290).
4300 Clinical Practicum in Communication Disorders in Schools (3) Prereq: Audiology and Speech Pathology 4300-330-44. Special Ed 4300, and consent of instructor.
4300 Seminar in Communication Disorders in Schools (3) Prereq: Audiology and Speech Pathology 4300-330-44. Special Ed 4300, and consent of instructor.
4300-4700 Problems in the Education of Exceptional Children (3, 3) Prereq: Consent of instructor.
4310 Literacy Practicum in Special Education (3, 3) Prereq: Consent of instructor.
4310 Literacy Practicum in Special Education (3, 3) Prereq: Consent of instructor.
4320 Speech and Hearing Clinic in Special Education (3) Prereq: Consent of instructor.
4330 Clinic in Communication Disorders in Schools (3) Prereq: Audiology and Speech Pathology 4330-330-44. Special Ed 4300, and consent of instructor.
4340 Clinic in Communication Disorders in Schools (3) Prereq: Audiology and Speech Pathology 4330-330-44. Special Ed 4300, and consent of instructor.
4350-61-71 Practicum in Special Education (3, 3, 3) Prereq: Consent of instructor.
4360 Clinic in Communication Disorders in Schools (3) Prereq: Audiology and Speech Pathology 4360.
4370 Practicum in School Psychology (1-6) (Same as Audiology and Speech Pathology 4370).
4380 School Psychology (2-3-4) (Same as Audiology and Speech Pathology 4380).
4390 Speech Pathology (1-6) (Same as Audiology and Speech Pathology 4390).
4400 School Psychology (1-6) (Same as Audiology and Speech Pathology 4400).
4410 Speech Pathology (1-6) (Same as Audiology and Speech Pathology 4410).
4420 Speech Pathology (1-6) (Same as Audiology and Speech Pathology 4420).
4430 Speech Pathology (1-6) (Same as Audiology and Speech Pathology 4430).
4440 Speech Pathology (1-6) (Same as Audiology and Speech Pathology 4440).
4450 Speech Pathology (1-6) (Same as Audiology and Speech Pathology 4450).
4460 Speech Pathology (1-6) (Same as Audiology and Speech Pathology 4460).
4470 Speech Pathology (1-6) (Same as Audiology and Speech Pathology 4470).
4480 Speech Pathology (1-6) (Same as Audiology and Speech Pathology 4480).
4490 Speech Pathology (1-6) (Same as Audiology and Speech Pathology 4490).
4500 Clinical Practicum in Speech Pathology (1-4) (Same as Audiology and Speech Pathology 4500).
4510 Practicum in School Psychology (1-6) (Same as Audiology and Speech Pathology 4510).
4520 Practicum in School Psychology (1-6) (Same as Audiology and Speech Pathology 4520).
4530 Practicum in School Psychology (1-6) (Same as Audiology and Speech Pathology 4530).
4600 Field Experience (3) Students observe, tutor, and perform teacher-related tasks in non-special education classrooms.
4610 Articulation Disorders (4) (Same as Audiology and Speech Pathology 3110).
Academic tutoring in a teacherhood capacity within regular classrooms. Emphasis on the individual student and the methods and materials unique to each teaching setting. Prereq: 4810 and 4820 or consent of instructor.

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

4740 Diagnostic and Remedial Approaches in Special Education and Rehabilitation (3) Critical examination of specialized tests and methods employed in the examination of educational needs of children and adults who are mentally retarded, learning disabled, multiply handicapped, or physically handicapped.

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

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

4840 Educational Problems of the Cerebral Palsey Child (6) Practical, social, and economic problems of cerebral palsy; 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.

4923 Student Teaching of the Partially Seeing (3) Supervised practice in pre-school, day school, and residential pupil setting. Prereq or coreq: Educ. C & I 4750 and Library and Information Science 4750.

5000 Thesis

5002 Non-Thesis Graduation Completion (3-15) Application for student teaching must be filed not later than January of the academic year preceding the actual experience. Prereq: 4110, 4120, 4130, 4150, 4351, 4351, 4740, S/NC.

5040 Utilization of Instructional Media (3) (Same as Audiology and Speech Pathology 4870).

5080 Seminar: Issues and Theories in Vocational-Technical Education (3)

5090-90-9230 Educational Specialist Research and Thesis (3, 3, 3)

5180-90-9180-9190-9200 Educational Specialist Research and Thesis (3, 3, 3)

5180-90-9230 Educational Specialist Research and Thesis (3, 3, 3)

5270 Placement, Follow-up, and Evaluation Procedures in Vocational-Technical Education (3)

5390 Issues and Trends in Vocational-Technical Education (3)

5540 Seminar: Functional Capability Assessment (3)

5620 Counseling Parents of Exceptional Children (3)

5700-60-70 Problems in Vocational-Technical Education (3, 3, 3)

5790 Career Development Workshop (1-6, 11-6, 11-6)

5810 Principles and Objectives of Vocational-Technical Education (3)

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

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

5970 Juvenile Delinquency and the School (3)

Vocational-Technical Education (988)

5901-41-4110-4210-4310 Vocational-Technical Education (988)

W. A. Cameron, Ph.D., Ohio State; J. I. Matthews (Head), Ph.D., Arizona State; E. R. Smith, Ph.D., Ohio State; R. J. Woodin (Emeritus), Ph.D., Ohio State; G. W. Wiegers, Jr., Ed.D., Missouri; A. J. Paulus (Emeritus), Ph.D., Cornell.

G. W. Wiegers, Jr., Ed.D., Missouri; A. J. Paulus (Emeritus), Ph.D., Cornell.
subject fields.

4230 Curriculum Construction in Business Education (3) Time, principles, practices, and problems involved in developing a curriculum for various types of educational institutions in which business subjects are taught.

4610-30-20 Problems in Business Education (3, 3, 3) Current business education problems, viewpoints of leaders is field; special attention to problems of business education.

4611 Problems in Business Education (1%)

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5000 Thesis

5000 Non-Thesis Graduation Completion (3-15)

5001 Problems in Lieu of Thesis (3)

5110 Graduate Seminar: Current Problems (3)

5111-13 Graduate Seminar: Current Problems in Business Education (1, 1, 1)

5119 Graduate Seminar: Texts and Measurements (3)

5130 Graduate Seminar: Guidance (3)

5140 Organization and Operation of Area Vocational Technical Schools (3)

5140-30-30 Practicum in Business Education (3, 3, 3)

5150 Evaluation of Research in Business Education (3)

5611-21 Problems in Business Education: Typing (3, 3)

5612-22-33 Problems in Business Education: Shorthand (3, 3, 3)

5614 Methods and Materials for Vocational Office Education (3)

5623-33 Problems in Business Education: Bookkeeping and Accounting (3, 3)

5624 Problems in Business Education: Clerical Supervision (3, 3)

5615-23-25 Problems in Business Education: General Business (3, 3, 3)

5619 Organization and Management of Vocational Office Education Program (3)

5622 Problems in Business Education: Administration (3)

5110-20-30 Current Issues in Business Education (3, 3, 3)

5210-20-30 Advanced Studies in Business Education (3, 3, 3)

5410 Higher Education for Business (3)

Distributive Education (273)

Professor: G. A. Wagner (Chairman), M.D. Indiana; R. E. Smith, Ph.D. New York; E. R. Smith, Ph.D. Ohio State.


4010 Principles of Business Education (3) Historical and philosophical background; principles of educational principles of social and commercial education.

4110 Teaching General Business Subjects (2) Materials, evaluation procedures, and recent research in subject fields.

4120 Teaching Typewriting (2) Materials, methods, evaluation procedures, and recent research in subject fields.

4140 Teaching Shorthand (2) Materials, methods, evaluation procedures, and recent research in subject fields.

4150 Teaching Bookkeeping (2) Materials, methods, evaluation procedures, and recent research in subject fields.

4230 Curriculum Construction in Business Education (3) Time, principles, practices, and problems involved in developing a curriculum for various types of educational institutions in which business subjects are taught.

4610-30-20 Problems in Business Education (3, 3, 3) Current business education problems, viewpoints of leaders in field; special attention to problems of business education.

4611 Problems in Business Education (1%)

GRADUATE

5000 Thesis

5000 Non-Thesis Graduation Completion (3-15)

5001 Problems in Lieu of Thesis (3)

5110 Graduate Seminar: Current Problems (3)

5111-13 Graduate Seminar: Current Problems in Business Education (1, 1, 1)

5119 Graduate Seminar: Texts and Measurements (3)

5130 Graduate Seminar: Guidance (3)

5140 Organization and Operation of Area Vocational Technical Schools (3)

5140-30-30 Practicum in Business Education (3, 3, 3)

5150 Evaluation of Research in Business Education (3)

5611-21 Problems in Business Education: Typing (3, 3)

5612-22-33 Problems in Business Education: Shorthand (3, 3, 3)

5614 Methods and Materials for Vocational Office Education (3)

5623-33 Problems in Business Education: Bookkeeping and Accounting (3, 3)

5624 Problems in Business Education: Clerical Supervision (3, 3)

5615-23-25 Problems in Business Education: General Business (3, 3, 3)

5619 Organization and Management of Vocational Office Education Program (3)

5622 Problems in Business Education: Administration (3)

5110-20-30 Current Issues in Business Education (3, 3, 3)

5210-20-30 Advanced Studies in Business Education (3, 3, 3)

5410 Higher Education for Business (3)

Distributive Education (273)

Professor: G. A. Wagner (Chairman), Ph.D. Wisconsin; Associate Professor: D. L. Pfeifer, M.Ed. Missouri.

4110 Student Teaching in Distributive Education (2) Full-time supervised experience in classroom teaching, coordination, club work, and adult education. Prerequisite: 4610, 4620. Education 3650; Edu Psych 3810, 4240 or equivalent. Undergraduate students must be taken with 4110. Undergraduate students must be taken with 4110.

4120 School and Community Relationships for the Teacher Coordinator (3) Content dependent upon teaching assignment; human relations existing from school, parent, business, and other community contacts must be taken with 4110. Undergraduate students must be taken with 4110. Undergraduate students must be taken with 4110.

4130 Areas of Distribution (3) Marketing, product or service technology, social skills, basic skills, and distribution as these areas relate to the distributive education curriculum in secondary and post-secondary programs.

4140 Supervised Distributive Experience (3) Minimum 320 hours experience in approved distributive business; concurrent academic project.

4150 Organization and Operation of Distributive Education Programs (3) Background and development of current federal and state legislation; curriculum implementation; establishing; evaluating, reporting, and improving programs.

4320 Methods and Materials in Distributive Education (9) Prerequisite: 4310 or consent of instructor.

4330 Coordination Techniques in Distributive Education (3) Selecting training agencies; job analyses; selecting field teaching the training supervisors; advisory committees; adult education and other community services. Prerequisites: 4310 and 4320.

4610-30-20 Problems in Distributive Education (1, 3, 3, 3) Solution of the two quarter sequence and coordinating didactic education programs. May be repeated. Maximum credit 6 hrs each.

GRADUATE

5000 Thesis

5002 Non-Thesis Graduation Completion (3-15)

5100 Organization and Teaching Adult Distributive Education (3)

5210-30-30 Special Problems in Distributive Education (3, 3, 3)

5616-36-36 Problems in Distributive Education: Teaching (3, 3, 3)

Home Economics Education (490)

Professor: N. W. Logan (Chairman), Ph.D. Tennessee; J. E. Brown (Emeritus), Ph.D. Ohio State.

Associate Professors: C. L. Moore, Ph.D. Florida State; W. S. Miller, Ph.D. Ohio State.

2450 Introduction to Teaching Vocational Home Economics (3) Introductory and exploratory experience in teaching vocational home economics. Includes observation and participation in various educational and vocational settings.

3450 Strategies of Teaching Home Economics (6) Teaching strategies, methods, techniques, and use of field experience included. Prerequisite: 2240.

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

4310 Undergraduate Teaching (4) Undergraduate, Philosophy, technique, and materials, relation to school program and community.

4500 Field Experience in Home Economics Related Occupations (4) Supervised field experience and seminar in teaching of occupations which utilize home economics skills and knowledge. Prerequisite: Consent of instructor. SNC may be repeated.

4810 Student Teaching (8) Open to seniors or graduate students who have successfully completed College of Education 2020, Advanced Studies in Home Economics.

2240 Field Experience in Home Economics Related Occupations (4) Planning of curriculum and design of instruction for the classroom. Prerequisite: 2240, 3240, 4240, coreq: 4310.

2718-28-33 Home Economics Education (3, 3, 3) For juniors and seniors showing special aptitude in the subject matter of home economics education. Prerequisite: Consent of department head.

GRADUATE

5000 Thesis

5002 Non-Thesis Graduation Completion (3-15)

5100 Furthering Good Human Relationships in the Family (3)

5220 Evaluation of Home Economics (6) For graduate students who have successfully completed College of Education 2020, Advanced Studies in Home Economics.

5011 Problems In lieu of Thesis (3)

5000 Thesis

5002 Non-Thesis Graduation Completion (3-15)

5100 Furthering Good Human Relationships in the Family (3)

5220 Evaluation of Home Economics (6) For graduate students who have successfully completed College of Education 2020, Advanced Studies in Home Economics.

5011 Problems In lieu of Thesis (3)
5320 The Teaching of Home Economics in College (3)
5330 Organization of the Homemaking Curriculum in Secondary Schools (3)
5410 Supervision of Home Economics in the Public Schools (3)
5420 Wage Earnings Programs in Home Economics (3)
5520 Special Problems for Non-Thesis Students (3, 3, 3)
5530-56 Special Problems in Home Economics Education (1, 1, 1, 1, 1)
5620-21 Seminar in Home Economics Education (3, 3)

Industrial Education (547)
Professor: J.L. Reed (Chairman), M.S. Oklahoma; R.W. Haskett, Ph.D. Purdue.
Assistant Professors: J.C. Reif, Ph.D. Minnesota; D.C. Ward, Ph.D. Purdue; G.D. Miller, Ph.D. Purdue; D.J. Tuft, Ph.D. Purdue; B.E. Taylor, Ph.D. Utah State; R.R. Hanson, Ph.D. Purdue.
Assistant Professor: L.D. Selander, B.S. Tennessee; T.L. Powell, M.A. Oklahoma State.
3240 Welding and Cutting Techniques (3) Prereq: 1642
3242 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.
1610 Graphic Communications (3) Drafting as a means of communication in technology. Orthographic and multiview drawing, conventional projection, and applications of photography.
1620 Basic and Applied Electricity (3) Operation and characteristics of electrical systems and devices. Production of demonstration apparatus and various electrical projects involving function of different types of circuits.
1642 General Metals (3) Basic course dealing with metals, equipment, materials, products, and processes of metal-working industries. Includes working with lathes, milling, shaving, and machining, and fabrication. Instructor: K.D. R. Oklahoma State.
1651 General Woodworking (3) Basic course dealing with woodworking, equipment, materials, products, and techniques of wood-working industries. Includes working with gouges, chisels, planes, and other tools and basic machinery. Instructor: K.D. R. Oklahoma State.
2610-20 Basic Experiences in Trade and Industrial Education (3, 3, 3) Methods and materials of instruction, 3 periods.
2611 Power Mechanics (3) Includes various prime movers, methods of utilization, distribution and transmission of power with internal combustion engines. Maintenance, service and repair of small engines is stressed.
2621 Architectural Graphics (3) Introduction to fundamentals of graphic representation and applications of photographic, orthographic, and multiview drawing. Principles are stressed and working drawings for a residential building are developed. Prereq: 1651.
2631 Fundamentals of Applied Electronics (3) Sound, light, electricity, including amplifiers, oscillators, switching and timing circuits, applications including sounds in video systems, relate, control and industrial devices. Prereq: 1650.
2641 Machine Tool Processes (3) Introductory course of the function, care, setup, operation, and maintenance of basic machine tools. Prereq: 1642.
2652 General Plastics (3) Characteristics of thermoplastics and thermosetting materials, of determination, and resin selection to be covered. Prereq: 1661.
2660 Furniture and Cabinet Construction (3) Comprehensive study of cases and carcass construction with emphasis placed upon furniture and built-ins. Prereq: 1661.
2665 Special Problems for Non-Thesis Students (3, 3, 3) Problems in Home Economics Education (3, 3, 3) Methods and materials of education, and other destructive and non-destructive testing methods. Undergraduate credit only.
2667 Welding, Brazing, and Related Processes (3) Various types of welding equipment and fundamental techniques of welding. Undergraduate credit only.
2669-70 Materials and Methods for Teachers of Shop and Related Subjects (3, 3) Provides general experiences in special areas of drafting selected for the individual student. Instructor.
3110 History and Philosophy of Industrial Education (3)
3310 Shop Organization and Management (3)
3320 Materials and Methods for Teachers of Shop and Related Subjects (3, 3) 3340 School Shop Safety (3) 3350 Directed Teaching (9) Guided observation and supervised teaching in at least two types.
3360-61-62 Electronics Technology (3, 3, 3) Basic principles and application of electronics. Undergraduate credit only.
3362 Electrical Motors (3, 3) Introduction to motors and controls for industrial applications. Undergraduate credit only.
3380-81 Machining of Metals (3, 3) Introduction to machine shop theory and practice in using basic machine tools. Undergraduate credit only.
3391 Philosophy and Rationale for Use of Craft Advisory Committees (3) Philosophy and rationale for use of craft advisory committees; their selection, organization, and operation.
3392 Industrial Graphics (3) Auxiliary views, sections, construction of working drawings, dimensioning, plotting drawings, and drafting machinery. Prereq: 3360.
3393 Industrial Electricity and Equipment Control (3) Theoretical and practical application and industrial electric equipment both simple and complex and control of electric circuits. Emphasis placed on circuit tracing, installation, maintenance, and other subjects. Prereq: 1650.
3394 Advanced General Metals (3) Provides experiences in areas of hot and cold forming of metals, machine and metal finishing, tool graining, heat treatment, fabrication, and precision measurement. Prereq: 2631.
3395 Plastic Processing (3) Plastics production equipment and technology, methods and materials. Instructor.
3396 Construction Methods and Materials (3, 3, 3) Methods and materials, equipment used in residential construction, including selection and execution, framing, flooring, roofing, interior and exterior finishes, insulation, and acceptable practices in assembly. Prereq: 4310.
3397-78 Tool and Machine Design (3, 3, 3) Tool and machine design: calculation of sizes and shapes, and design engineering. Undergraduate credit only.
4010-11-12 Graphic Representation (3) Graphic arts skills in printing and duplicating techniques and other methods of graphical communication.
4020-21-22 Industrial Arts (3, 3, 3) Tool trade subject curriculum; calculation of sizes and shapes, and design engineering. Undergraduate credit only.
4026 Visual Communications in Industrial Arts (3)
4049-50-51 Technical Laboratory Equipment and Maintenance (3, 3, 3) Understanding of preventive maintenance, maintenance, and calibration of instrumentation and equipment used in industrial education.
4110-20-21 Curriculum Building in Trade and Industrial Subjects (3, 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.
4331-32-33-34-35-36 Problems in Industrial Education (3, 3, 3, 3, 3, 3)
4395 Directed Teaching (3) 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: 3391.
4410 Foremanship Training by the Conference Method (3) Philosophical and practical approaches to the field of industrial education with knowledgeable resource personnel.
4420 Vocational Technical Laboratory Equipment and Maintenance (3, 3, 3) Understanding of preventive maintenance, maintenance, and calibration of instrumentation and equipment used in industrial education.
4430 Directed Teaching (3) 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: 3391.
4440 Industrial Training by the Conference Method (3) Philosophical and practical approaches to the field of industrial education with knowledgeable resource personnel.
4450 Industrial Training by the Conference Method (3) Philosophical and practical approaches to the field of industrial education with knowledgeable resource personnel.
4460 Directed Teaching (3) 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: 3391.
4470 Industrial Training by the Conference Method (3) Philosophical and practical approaches to the field of industrial education with knowledgeable resource personnel.
4480 Industrial Training by the Conference Method (3) Philosophical and practical approaches to the field of industrial education with knowledgeable resource personnel.
4490 Industrial Training by the Conference Method (3) Philosophical and practical approaches to the field of industrial education with knowledgeable resource personnel.
4891 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.

GRADUATE

5000 Thesis
5002 Non-Thesis Graduation Completion (3-16)
5110-20-30 Administration and Supervision of Industrial Education (3, 3, 3)
5140 Organization and Operation of Area Vocational-Technical Schools (3)
5210-20-30 Special Problems in Industrial Education (3, 3, 3)
5310 Method of Research in Industrial Education (3)
5410 Improving Teachers in Service (3)
5420 Advisory Committees and Apprenticeship Training (3)
5430 Vocational School Administration and Management (3)
5440 Advanced Methods of Teaching Skills and Technical Information (3)
5590-20-30 Seminar in Industrial Technical Education (3, 3, 3)
5540 New Developments in Industrial Technical Education (3)