

1968

# 1968-1970 Southern Illinois University Bulletin Carbondale Campus (Teacher Education Programs)

Southern Illinois University Carbondale

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Southern Illinois  
University

*Bulletin*

*Teacher Education Programs  
Carbondale Campus  
1968/1970*



OBJECTIVES OF SOUTHERN ILLINOIS UNIVERSITY

TO EXALT BEAUTY

*In God,  
in nature, and  
in art;  
Teaching how to love the best  
but to keep the human touch;*

TO ADVANCE LEARNING

*In all lines of truth  
wherever they may lead,  
Showing how to think  
rather than what to think,  
Assisting the powers  
of the mind  
In their self-development;*

TO FORWARD IDEAS AND IDEALS

*In our democracy,  
Inspiring respect for others  
as for ourselves,  
Ever promoting freedom  
with responsibility;*

TO BECOME A CENTER OF ORDER AND LIGHT

*That knowledge may lead  
to understanding  
And understanding  
to wisdom.*

Southern Illinois  
University  
*Bulletin*

*Teacher Education Programs  
Carbondale Campus  
1968/1970*



**SOUTHERN ILLINOIS UNIVERSITY**  
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## This Issue . . . . .

of the *Southern Illinois University Bulletin* covers in detail general and specific information on the academic preparation of teachers in elementary, secondary, and special education programs on the Carbondale Campus.

THE FOLLOWING issues of the *Southern Illinois University Bulletin* may be obtained free from Central Publications, Southern Illinois University, Carbondale, Illinois 62901.

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# 1 / Teacher Education Programs

## Introduction

This official document of Southern Illinois University, Carbondale Campus, presents general and specific information on the preparation of teachers in elementary, secondary, and special programs. It has been developed to serve as a guide for the student preparing for a career in the teaching profession.

Admission to, retention in, and completion of an approved teacher education program of Southern Illinois University, Carbondale Campus, are administered by the dean of the College of Education. All inquiries about the various programs may be directed to his office.

## *New Administration Procedure*

When a student decides on the teacher education program of his choice, he may make application according to the regulations stated herein. Formal application for admission to a teacher education program must be made through the assistant dean's office of the College of Education and *approval must be granted prior to entrance* into professional education coursework (either Elementary Education 314 or Elementary Education 316 for elementary, early childhood, and special education students; Secondary Education 310 for secondary and some special education students).

Application forms for admission to a teacher education program at Southern Illinois University, Carbondale Campus, may be secured at the dean's office, College of Education, Wham Education Building, Room 115.

## General Information

Teacher education programs are an important part of a growing list of professional programs in higher education. The uniqueness of a profession is that it assumes responsibility for its own standards of performance. The student entering the teaching profession will find it is better characterized by how

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it is operated than by any special course of preparation. The teaching profession has a further responsibility. It is the means through which society receives its formal training. Thus teacher preparation of the highest quality must be the first concern of the teaching profession.

The National Education Association has established the following goals toward which the teaching profession should move:

1. The development of high standards for entrance into teaching;
2. The legal adoption of certification requirements to assure competent service;
3. The maintenance of plans for accrediting institutions for teacher education;
4. The enforcement of the requirements that final certification be based on evidence of successful teaching during probation.

There is no way to insure that all prospective teachers will be good teachers, but a step in that direction can be taken by enrolling in the best teacher education program available. A good teacher education program has been described as one including general education, specialization, and professional education.

The caliber of a teacher education program is determined to a large degree by the admission and retention policies as evidenced by requirements, standards, and procedures. Obviously, the indiscriminate use of provisional or probationary status as an entrance to teacher education is generally viewed as unsound admission practice. The sincerity with which an institution complies with its entrance requirements is extremely important.

### *Some Characteristics of a Good Teacher*

An essential and persistent question asked is "What makes a good teacher?" There is no single quality which can be used to describe a good teacher. However, some characteristics advanced by the National Education Association and generally considered to be essential for a good teacher are as follows:

1. General intelligence, that includes the ability to pass college work, to assimilate learning, to understand cultural backgrounds, and to understand students and how the learning process takes place;
2. A thorough understanding and basic knowledge of and about the subject matter taught;
3. Good verbal facilities that enable the teacher to express himself and present his subject matter well;

4. Creative ingenuity that allows the teacher to make class work so interesting that the student will want to learn;

5. Physical energy and drive;

6. Moral and personal prerequisites such as patience, considerateness, emotional stability, good judgment, and leadership.<sup>1</sup>

Admittance to a teacher education program is determined to a large degree by how well one measures up in terms of possessing these essential characteristics.

Students seeking admission to a teacher education program through transfer from another institution or another program at Southern Illinois University must meet the standards required of regularly enrolled students.

## Standards For Admission To A Teacher Education Program

### *Unconditional Admission*

A student may apply for admission to a teacher education program with a minimum of 64 quarter hours of academic work. To be eligible for unconditional admission a student with from 64 to 102 quarter hours must have a cumulative grade point average of at least 3.00 on a 5.00 scale. A student applying for admission with 103 to 143 quarter hours must have at least a 3.10 cumulative grade point average. A student with more than 143 quarter hours at the time of application for admission must have at least a 3.20 cumulative grade point average. To apply for a student teaching assignment, a student must have been unconditionally admitted to a teacher education program. Before beginning a student teaching assignment, the student must have at least a 3.25 cumulative grade point average.

### *Provisional Admission*

A student may seek provisional admission to a teacher education program under the following conditions:

1. If he has 103 to 143 quarter hours of credit with a cumulative grade point average between 3.00 and 3.09 provided the grade point average in his teaching specialization is at least 3.20.

2. If he has more than 143 quarter hours of credit with a cumulative grade point average between 3.10

<sup>1</sup> National Education Association, *Teaching Career Fact Book*, 1964.

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and 3.19 provided the grade point average in his teaching specialization is at least 3.30.

3. For a student planning to teach at the secondary level, the teaching specialization will include the subject matter concentration plus all education courses.

##### *Student Teaching Prerequisites*

1. Preliminary application should be made to the director of Student Teaching during the *winter quarter one year prior to graduation*.

2. A final, detailed application must be completed *two quarters* in advance of the student teaching assignment.

3. A student must have 128 quarter hours of credit with a minimum of a 3.25 cumulative average before beginning work in student teaching.

4. The student is responsible for having all transcripts of credit earned at colleges or universities other than Southern Illinois University on file in the office of the director of Student Teaching. (This requirement does *not* apply for hours of credit earned at Southern Illinois University.)

5. Before student teaching, the student in secondary education must have at least 16 quarter hours of credits in the subject which he proposes to teach. Such credit must meet the approval of the respective department chairman. The subject or subjects must be "public school major" teaching subjects.

6. Each student must have at least 11 quarter hours in professional education courses prior to doing student teaching. He must have successfully completed a course in each of the subjects listed under the appropriate heading below:

**SECONDARY:** general psychology, educational or adolescent psychology, secondary teaching methods (a special secondary methods course is accepted only for teaching in the respective major teaching area), and history and principles of secondary education.

**ELEMENTARY:** general psychology, educational or child psychology, reading methods and elementary methods.

**EARLY CHILDHOOD EDUCATION:** general psychology, educational or child psychology, reading methods, and kindergarten-primary methods. Each student in early childhood education must also be approved in class piano and must take secretarial and business education 241.

7. Each student must have major academic training in a public school teaching subject which meets the approval of the respective department chairman.



8. At the end of the fall quarter, 1966, English 391 and the Undergraduate English Qualifying Examination were replaced with a new General Studies series. Students majoring or minoring in English must complete English 300a and 300b securing a grade of C or better. All other students must have completed GSD 101, 102, and GSC 103 with a composite average of C or better. Students who have a C average in the former English series (GSD 101a, 101b, and GSC 103) will have met the English proficiency requirement. Students who failed to receive a C average or better in the old English composition series, will need to contact the director of English for General Studies, to determine how the English proficiency requirement is to be satisfied. In no case can a student receive credit for both GSC 103 (old content) and GSC 103 (new content).

9. The student must have established at least one quarter of residence at Southern Illinois University, earning a minimum of 16 quarter hours of credit, prior to any student teaching assignment.

10. Every student teacher must have a health clearance from the University Health Service. The health clearance consists of a tuberculin test. If it is not convenient to come to the Health Service in Carbondale, the student may have a tuberculin test by his own medical doctor. The report must be filed with the Health Service.

11. Application for admittance to the Student Teaching program will be made with respect to the above mentioned prerequisites two quarters in advance of the student teaching assignment.

12. A Student Teaching program which grants 16 hours of credit does not permit additional hours to be earned without the approval of the professional quarter committee.

*General Studies Requirements for All  
Bachelor's Degree Candidates*

	QUARTER HOURS
GSA—Man's Physical Environment and Biological Inheritance .....	22
Level 1     GSA-1	8
Level 2     GSA-2	8
Level 3     GSA-3	6
GSB—Man's Social Inheritance and Social Responsibilities .....	22
Level 1     GSB-1	8
Level 2     GSB-2	8
Level 3     GSB-3	6
GSC—Man's Insights and Appreciations ....	22
Level 1     GSC-1	9

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Level 2	GSC-2	7
Level 3	GSC-3	6
GSD—Organization and Communication of Ideas .....		18
Level 1	GSD-1	9
Foreign Language, or GSD Mathematics		9
GSE—Health and Physical Development ....		6
NOTE: It is possible to waive six hours at the third level in that area most closely related to the student's major teaching area.		
Total .....		90
If a third-level sequence is waived the total is only .....		84

### Procedure For Admission To A Teacher Education Program

#### *Undergraduate Students*

Any student who expects to complete a program of teacher education at Southern Illinois University must be officially admitted to a teacher education program. Application forms for admission to a teacher education program for an undergraduate student can be secured from the dean's office of the College of Education, Wham Education Building. These forms must be completed by the student and then given to (1) his academic adviser, (2) the chairman of the department of his major teaching area, for secondary and special education students only, (3) either the chairman of the Department of Elementary Education or Secondary Education, and (4) the assistant dean for undergraduate studies, College of Education, for their review and recommendation for approval (or disapproval). The forms must then be returned to the assistant dean for undergraduate studies for the official record of approved students in teacher education programs. This entire transaction *must take place prior to entrance* into the professional sequence of education coursework. The professional education coursework starts with Elementary Education 314 or 316 for elementary, special, and early childhood education students. For secondary education and some special education students it starts with Secondary Education 310.

#### *Graduate Students*

Application forms for admission to a teacher education program for a post-baccalaureate student who desires teaching certification can also be secured in the dean's office of the College of Education, Wham

Education Building, Room 115. These forms must be completed by the student and then given to the graduate dean, the assistant dean for undergraduate studies of the College of Education, and the graduate adviser (if the student has been admitted to a program leading to a master's degree) for their review and recommendation for approval (or disapproval). These forms must then be returned to the assistant dean for undergraduate studies for the official record of approved students in teacher education programs.

### Certification of Teachers

A teaching certificate is, for all practical purposes, a license to teach in a given state, at a specific level and in a certain type of job. Illinois, like other states, requires its public elementary and secondary teachers, as well as other specialized personnel, to hold certificates to ensure that pupils are taught only by persons who meet specified standards of preparation, health, age, citizenship, and character. Being certified by one state does not necessarily mean that a teacher will qualify for certification in any other state. One reason for this situation is that even minimum requirements for the lowest teaching certificate vary widely from state to state. However, more than half the states accept the certificates of teachers who graduate from teacher education programs in other states if the programs are accredited by the National Council for Accreditation of Teacher Education (NCATE). Southern Illinois University is accredited by NCATE. Three general types of teaching certificates are being issued to school personnel in Illinois: the Standard Elementary School Certificate, the Standard Special Certificate, and the Standard High School Certificate.

#### *General Requirements for All Teacher Education Programs*

To qualify for any of these certificates it is required by law that a person must complete a course in American history and/or American government. A further requirement is that anyone renewing a teacher's certificate in the State of Illinois must pass an examination "upon the provisions and principles of the Constitution of the United States and of the State of Illinois."<sup>1</sup> Both of these requirements may be met by successfully completing one of the follow-

<sup>1</sup>The School Code of Illinois, Circulation Series A, No. 170, Issued by the Office of the Superintendent of Public Instruction, State of Illinois, P.211, 1965.



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ing courses: GSB 211b (government), Government 231, Government 300, GSB 300a (history).

### *Standards for Recommendation for Certification*

A student in a teacher education program must file an application requesting recommendation for certification with the dean of the College of Education. This application must be filed prior to the beginning of his final quarter.

The student's record must show evidence of meeting the University's graduation requirements, professional education requirements and requirements in his teaching area. For final recommendation, the student must have a grade point average of 3.25, evidence of satisfactorily completing student teaching, and the recommendation of his department and his dean.

### *Elementary School Certification*

Although the elementary school teacher's certificate covers grades kindergarten through nine, the most common type of elementary school organization is kindergarten through grade six. In elementary schools, teachers usually are assigned to a home-room group of children with the responsibility for the major share of the classroom teaching for a particular grade. The individual teacher preparation program is slanted toward the age group level selected by the potential teacher as his teaching grade level preference, whether primary, intermediate, or junior high. Secondary school teachers also qualify for junior high school teaching by meeting the high school certification standards.

Various plans of organization are under consideration and in operation in many schools which are departures from the traditional self-contained classroom. Innovations in school organization, curriculum, and instructional techniques, including some departmentalization and team teaching, have pointed to a need for more specialized training of elementary school teachers. Special teachers of art, music, physical education, remedial reading, speech, and foreign languages are examples of departures from the self-contained classroom. The cooperative teaching approach is based upon the assumption that any teacher may excel in some but probably not all, of the instructional areas in teaching skills and techniques. With the emphasis toward more specialization for elementary school teachers, teacher education institutions are faced with the responsibility to provide the kind of program neces-

sary to prepare teachers for the schools of tomorrow. These trends call for continuous revision of teacher-preparation programs and state certification standards.

The existing programs at Southern Illinois University for training of elementary school teachers, as far as general and professional course requirements are concerned, are as follows:

*Early Childhood Education*

Professional Education Requirements

QUARTER HOURS

Educational Administration 355, Philosophy of Education .....	4
Guidance 305, Educational Psychology ....	4
Elementary Education 316, Kindergarten-Primary Methods and Curriculum .....	4
Elementary Education 309, Kindergarten-Primary Social Studies Methods .....	3
Elementary Education 337, Teaching Reading .....	4
Student Teaching .....	16
Education electives (See list below) .....	13
Total .....	<u>48</u>

General Requirements

GSB 300b,c .....	6
Government 300, American Government, or GSB 211b .....	4
Math 310, Teaching Elementary Mathematics .....	4
Physical Education-Women 319, Teaching Group Activities .....	4
Art 300, Art Education .....	4
Technical and Industrial Education 302, Construction Methods for Primary Teachers .....	4
Music 300c, Music Methods for Non-music Majors .....	3
Secretarial and Business Education 241, Duplicating .....	1
Music 010e, Piano .....	3
Area of Specialization (See list below) ....	12
Total .....	<u>45</u>

*Elementary Education*

Professional Education Requirements

Educational Administration 355, Philosophy of Education .....	4
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Guidance 305, Educational Psychology . . . .	4
Elementary Education 314, Elementary School Methods . . . . .	4
Elementary Education 337, Teaching Read- ing . . . . .	4
Student Teaching . . . . .	16
Education electives (See list below) . . . . .	16
Total . . . . .	<u>48</u>

### General Requirements

GSB 300b, 300c . . . . .	6
Government 300, American Government, or GSB 211b . . . . .	4
Math 310, Teaching Elementary Mathe- matics . . . . .	4
Physical Education-Women 319, Teaching Group Activities . . . . .	4
Language Arts Electives . . . . .	7
Art and Music Electives . . . . .	9
Area of Specialization (See list below) . . . .	12
Total Hours . . . . .	<u>46</u>

### Recommended Education Electives

Elementary Education 100, Introduction to Elementary Education . . . . .	3
Elementary Education 203, Understanding the Child . . . . .	3
Elementary Education 413, Children's Lit- erature . . . . .	4
Elementary Education 415, Improving Mathematics Instruction . . . . .	4
Elementary Education 442, Teaching Ele- mentary School Science . . . . .	4
Instructional Materials 417, Audio-Visual Methods and Techniques . . . . .	4
Guidance 422a, Tests and Measurements . . .	4
Guidance 412, Mental Hygiene . . . . .	4
Guidance 442, Basic Principles of Guidance	4
Speech 401, Creative Dramatics . . . . .	4
Speech 441, Teaching Speech in Elementary Schools . . . . .	4
Speech Pathology and Audiology 428, Speech Correction for the Classroom Teacher . . .	4
Special Education 414, The Exceptional Child . . . . .	4
Special Education 410, Problems and Char- acteristics of Various Types of Exceptional Children	
410a, Emotionally Disturbed Child . . . . .	4
410b, Mentally Retarded Child . . . . .	4
410c, Gifted Child . . . . .	4
410d, Acoustically Handicapped Child . . .	4

Area of Specialization

Each student in Elementary and Early Childhood Education selects one of the areas listed below and completes at least 12 quarter hours of course work in addition to courses used to meet requirements for the degree. This work will apply toward the minimum of 192 quarter hours required for graduation. The approved areas include: art, foreign languages, health and physical education, language arts, library science, mathematics, music, psychology, recreation, science, social studies, and special education.

*The Standard Special Certificate*

The Standard Special Certificate is valid for teaching the special subject or subjects named on the certificate in grades kindergarten through 12. This certificate may be issued to anyone who has been admitted to a teacher education program and who has completed the General Studies Requirements for All Bachelor's Degree Candidates as listed on page 5 and the General Requirements for All Teacher Education Programs as listed on page 7.

Professional Education Requirements

	QUARTER HOURS
Guidance 305, <sup>1</sup> Educational Psychology	4
Secondary Education 315, <sup>2</sup> High School Methods or Special Methods . . . . .	3-4
Secondary Education 310, <sup>2</sup> History & Principles of Secondary Education . . .	4
Secondary Education 352 and Elementary Education 351, Student Teaching	<u>12-16</u>
Total . . . . .	23-28

- Select two (2) courses from the following:
- Agricultural Industries 311, Adult Education in Agriculture . . . . . 3
  - Art 308, Curriculum and Administration in Art Education . . . . . 3
  - Educational Administration 355, Philosophy of Education . . . . . 4
  - Home Economics Education 310, Adult Education and Evaluation . . . . . 4
  - Instructional Materials 417, Audio-Visual Methods . . . . . 4
  - Secondary Education 407, The Junior High School . . . . . 4
  - Secondary Education 440, Teaching Reading in High Schools . . . . . 3

<sup>1</sup> GSB 201c is a prerequisite for Guidance 305.  
<sup>2</sup> Guidance 305 is a prerequisite for Secondary Education 310 and Secondary Education 315.



Industrial Education 408, Teaching Aids  
in Technological Education . . . . . 3

The teaching major must consist of at least 48 quarter hours in the academic specialization. The Standard Special Certificate is most often issued to teachers who teach the same subject at both elementary and secondary school levels. The most common subject areas where the Standard Special Certificate is used are music, art, and physical education.

*High School Certification*

Secondary school teachers work in both junior and senior high schools, with students in grades six through twelve. The majority of high schools are general or comprehensive schools providing a wide range of curricular offerings. A decision to teach in secondary schools should be based on at least two considerations: whether one likes teenagers and feels he can work well with them and whether he wants to limit the subject matter he teaches to a core of related subjects or a single speciality. In both junior and senior high schools a teacher's subject specialty will probably be confined to one or two related areas. It is usually a practice for schools to assign teachers to teach only in the subject in which they are most expert. However, the small schools confronted with teacher shortage sometimes assign teachers to teach in multiple specialties.

PROFESSIONAL EDUCATION REQUIREMENTS—  
STANDARD HIGH SCHOOL CERTIFICATE

The following professional education sequence will meet the professional course requirements as well as Southern Illinois University's approved program for the Standard High School Certificate.

Guidance 305, <sup>1</sup> Educational Psychology	4
Secondary Education 310, <sup>2</sup> History & Principles of Secondary Education . . .	4
Secondary Education 315, <sup>2</sup> High School Methods or Special Methods . . . . .	3-4
Secondary Education 352, <sup>3</sup> Student Teaching . . . . .	12-16
Select two courses from the following: . .	6-8
Agricultural Industries 311-3, Adult Edu- cation in Agriculture	
Art 308-3, Curriculum and Administra- tion in Art Education	

<sup>1</sup> GSB 201c is a prerequisite for Guidance 305.

<sup>2</sup> Guidance 305 is a prerequisite for Secondary Education 310 and Secondary Education 315.

<sup>3</sup> See page 4 Student Teaching Prerequisites.

Educational Administration 355-4, Philosophy of Education	
Guidance 422a, Educational Measurements & Statistics	
Home Economics Education 310, Adult Education and Evaluation	
Technical and Industrial Education 408-3, Teaching Aids in Technological Education	
Instructional Materials 417-4, Audio-Visual Methods	
Secondary Education 407-4, The Junior High School	
Secondary Education 440-4, Teaching Reading in High Schools	
All students must have a minimum of ..	32

MAJOR TEACHING AREAS

The major teaching area is a field of specialization built on a clearly formulated statement of the competencies needed by teachers in a specific teaching area. The academic specialty should include the attitudes, knowledge, understandings, and skills required, as well as the degree of expertness necessary for a beginning teacher.

A major teaching area must consist of at least 48 quarter hours in an academic area. It should reflect a planned program which allows a student to achieve the teaching competencies necessary. It is possible for a person to qualify for a secondary certificate with three minor teaching areas. These minor areas must meet, at least, the minimum hours required for teaching in the academic areas selected. In every case the field of specialization should include provisions for a systematic evaluation to determine the degree to which the student has achieved the teaching competencies necessary for successful teaching in each particular area.

ACADEMIC SPECIALIZATION

One major area of specialization . . . . . 48

or

Three minor areas of specialization with a sufficient number of hours to meet the minimum requirements for teaching in each area. (24-27-30-36) . . . . . 72-108

Some courses which are counted as General Studies may also be counted as part of the hours required for major and/or minor areas of specialization

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The academic major and minor teaching areas and the appropriate coursework as required at this printing, May, 1968, are listed in the following two chapters.

## 2 / Major Teaching Areas

Many of the courses listed in this chapter and the next one will be followed by this symbol \*. This is to denote that this course may be taken to meet General Studies and professional education requirements. These requirements range from 116 to 131 quarter hours but are subject to change. Your adviser will be aware of the most recent revisions, so kindly check with him at registration time.

Some of the numbers in the quarter hours column will be in parentheses. This indicates that the number of hours in the parentheses has been counted, for this course, as General Studies requirements and cannot be counted again in the required hours for a teaching area.

For examples of the use of these markings see the agricultural education section listed directly below.

### Agricultural Education

	QUARTER HOURS
GSA 101 .....	(8)
GSD 103, 108, 110 or Mathematics 111 ....	(13)
Agricultural Industries 204, 210, 215, 309,* 311,* 312a,* 312b,* 350, <sup>1</sup> 373, <sup>2</sup> 375, <sup>3</sup> and one additional course .....	46
Animal Industries 105, 315, and one additional course .....	12
Plant Industries 103, <sup>4</sup> 309, <sup>5</sup> and one additional course .....	12
Electives in Agriculture .....	24
Total required for major teaching area .....	94

<sup>1</sup> Prerequisite: Ag. I. 204.

<sup>2</sup> Prerequisite: GSD 108b.\*

<sup>3</sup> Prerequisite: GSD 108b.\*

<sup>4</sup> Prerequisite: High School or Concurrent College Chemistry.

<sup>5</sup> Prerequisite: GSA 201a.\*

### Art Education

GSC 341,* 342 *	6
Art 100,* 200, 225a,* 225b,* 225c,* 302, 307, 308,* 300a or 365,* 332, 385 .....	61
Electives in Art .....	14
Total required for major teaching area .....	81



**Biological Sciences**

GSA 201a, 201b or 210a, 210b, and 303 and 312 .....	(14)
GSA 340 or, Botany 341, or Zoology 310 ..	3-5
GSA 301 and Botany 320, or Physiology 315a,b and c .....	9-15
Botany 315 or Zoology 401 .....	4-5
Botany 300, 301 .....	6
Chemistry (Must include equivalent of Chemistry 111b,c) .....	15
Microbiology 301, 302 .....	10
Zoology 102, 103, 402 or 403 .....	14
Electives from Botany, Microbiology, Physiology, and Zoology .....	2-11
Total required for major teaching area ....	<u>63-81</u>

**Botany**

GSA 201a,* 201b,* or 210a, 210b .....	8
GSA 340 * and 345 * .....	6
Botany 300, 301 .....	6
Electives in Botany .....	<u>28</u>
Total required for major teaching area .....	48

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for biological science or general science teaching certification, and a minor teaching area in zoology is recommended to enable the student to certify to teach biology and botany.

**Business Teacher Education**

Accounting 251a .....	4
Economics 214, 215 .....	8
Management 340 .....	4
Marketing 301 .....	4
Secretarial and Business Education 201a .....	<u>3</u>
Total required for the above courses .....	23

Preparation to teach in at least four but preferably five of the following areas:

Area 1—Typewriting: Secretarial 201b, 201c, 241, 304, 403 <sup>1</sup> .....	13
Area 2—Shorthand and Transcription: Secretarial 221a, 221b, 221c, 324a, 324b, 404 <sup>1</sup> .....	23
Area 3—Bookkeeping, Accounting and Record Keeping: Accounting 251b, 261, 351a, Secretarial 408 <sup>1</sup> .....	11

Area 4—General and Consumer Business Subjects: Finance 305, 325, 371, Sec- retarial 405 <sup>1</sup> .....	15
Area 5—Office Practice and Machines: Required courses for Area 1, Manage- ment 271, Secretarial 326, 341, 406 <sup>1</sup> .	29
Area 6—Business Law: Finance 371, 372, 373, Secretarial 405 <sup>1</sup> .....	15
Area 7—Distributive Education: Mar- keting 363, 401, Marketing Elective—4, Secretarial 414a, 414b <sup>1</sup> .....	15
Area 8—Electronic Data Processing: Secretarial 341, 417 or (Data Process- ing 101a and 104), Accounting 415, Data Processing 103a .....	17-21
Total required from the above areas .....	<u>37</u>
Total required for major teaching area .....	60

Nine hours of typewriting and 16 hours of short-hand may be acquired through proficiency. Credit given for college courses only. Students who complete Areas 1, 2, and 5 are prepared for secretarial and related office positions. Upon graduation, they have job opportunities in two fields: (1) business teaching and (2) secretarial and related office work.

To qualify as a vocational business teacher or co-ordinator of office occupations and distributive occupations, students are required to take Secretarial 414-6 and Secretarial 415-6 in addition to the courses in the four teaching areas selected.

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<sup>1</sup> Two methods courses are required. Secondary Education 315-4 may be substituted for one of the business education methods courses.

### Chemistry

Chemistry 111b <sup>1</sup> and 111c .....	10
Chemistry 235, 305a, 305b or 341a, 341b, 341c .....	9-15
Chemistry 460 <sup>2</sup> or 461a, <sup>3</sup> 461b, 461c .....	5-12
Electives in major area .....	<u>11-24</u>
Total required for major teaching area ....	48

Students electing both the 305 and 460 options will find it difficult to find 48 hours of chemistry for which they have the prerequisites.

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for the General Science certification.

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<sup>1</sup> Prerequisites: Chemistry 111a or High School Chemistry.

<sup>2</sup> Prerequisites: A year of college physics and Math 111a and 111b.

<sup>3</sup> Prerequisites: A year of college physics and Math 252b.

**Economics**

GSB 311 *	3
GSD 110 * <sup>1</sup>	3
Economics 214, 215, 310, 315, 330, 440, 441 .	28
Electives (except Economics 301, 433, 479, and 490) to total required hours	14-16
Total required for major teaching area	48

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for social studies certificate.

<sup>1</sup> Prerequisites: GSD 108b \* or 114b.\*

**English**

GSC 201,* <sup>1</sup> 202,* <sup>1</sup> and 210,* <sup>1</sup>	9
English 300a, 300b, 302a, 302b, 302c, 309a and 309b, or 309a and 309c, 390, and 485,* plus 495a or 495b, 471b and one 400-level English course from each of the following: Poetry or Fiction <sup>2</sup>	49
Two years of college work in one foreign lan- guage	18
Total required for major teaching area	76

<sup>1</sup> Prerequisite: GSC 103.

<sup>2</sup> Departmental honors program students may take English 497a,b,  
c (12 hours).

**Foreign Languages**

GSD 140a,* 140b,* 140c*	9
Spanish 201a, 201b, 201c, <sup>1</sup> 310a, 310b, 310c (or 333a, 333b, 333c—at least four of the six courses required), 320a, 320b, 320c	27
Spanish electives (400 level) minimum of nine hours (may include Romance Philology)	9
Methods of Teaching a Foreign Language (FL-353) (German 353, Russian 353, Span- ish 353, French 353)	4
Total for major teaching area	49

Concentrations are available in French, German, Spanish, Russian, Greek and Latin. Other concentrations follow the model presented. Students having four years of high school language generally begin with 300-level courses.

<sup>1</sup> Prerequisites: one year college foreign language or successful passing of placement tests in the case of students with three years or less of high school foreign language work.

**Geography**

GSA 331 .....	3
Geography 300, 302, <sup>1</sup> <sup>2</sup> 304, <sup>1</sup> 306, <sup>1</sup> 310a, <sup>1</sup> 490a, 490b .....	24
Geography—at least one sequence at 400-level	7
Geography electives <sup>3</sup> .....	14
<b>Total required for major teaching area .....</b>	<b>48</b>

It is recommended that the student complete the Illinois Office of Public Instruction's requirements for a social studies major teaching area.

<sup>1</sup> Prerequisite: Geography 300 (concurrent enrollment permitted).  
<sup>2</sup> Prerequisite: GSA 331-3.  
<sup>3</sup> GSB 355 and Geography 443 strongly recommended.

**Government**

48 hours to be selected from the following:

GSB 211b, GSB 385 * and 390 * .....	10
Government 231, 232, 305, 315, 330, 360, 371, 379, 380, 420, 466, 467, 472, 495 .....	38
<b>Total required for major teaching area .....</b>	<b>48</b>

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for a social studies major teaching area.

**Health Education**

Health Education 300, 301, 305, 312, 325, 334s, 400, 405, 471, 491 .....	37
Electives in Health Education .....	11
<b>Total required for major teaching area .....</b>	<b>48</b>

Students interested in Community Health Education should choose electives from Health Education 355, 488, 489, and 490.

Students electing majors in health education are encouraged to secure 36 quarter hours in natural science or, if preferred, to secure a secondary concentration in biological sciences consisting of GSA 201a,\* 201b,\* and GSA 301 \*; Botany 300, 301, 313, 449; Zoology 102, 103; and Microbiology 301.\* Other suggested concentrations in related fields are physical education, home economics education and recreation.

**History**

GSB 101a,* 101b * .....	8
GSB 300a,* 300b,* 300c * .....	9



## 20 / Teacher Education Programs

History 452 .....	3
Electives: 300- or 400-level history courses with not less than 9 quarter hours in U.S. history and 9 quarter hours in foreign history. Fifteen elective hours must be on the 400-level, to total .....	28
<b>Total required for major teaching area .....</b>	<b>48</b>

### Home Economics

GSA 101a, 301; GSB 102-8; 211-8; GSC 101, 102, 103 .....	(24) + 9
Chemistry 110, 240 .....	(4) + 4
Clothing and Textiles 127, 131, 233, 304, 327 .	16
Food and Nutrition 100, 256, 320, 335 .....	15
Home and Family 227, 237, 323, 324, 331, 332, 341, 345b .....	25
Home Economics Education 111, 309-6,* 310 *	12
Electives in home economics .....	3
Electives in education .....	3
Electives .....	1-3
<b>Total required for major teaching area ....</b>	<b>87-90</b>

### Journalism

Journalism 101, 102, 103, 201, 202, 303, 390, 421, 422 .....	28
Electives in journalism (Recommended electives are: Journalism 214, 260a, 370, 391) .....	20
<b>Total required for major teaching area .....</b>	<b>48</b>

### Language Arts (with Social Studies, for Junior High School)

GSB 101a,* 101b,* 102b,* 201a,* 201b,* 211a,* or 211b,* 300a,* 300b,* 300c* .....	33
GSC 201,* 202,* 210,* 345 * .....	12
GSC elective in Literature * .....	3
GSD 101a,* 101b,* 103 * .....	9
GSE 201 * .....	3
English 300, 302a, or 302b (or) 302b, 302c, 309a, 309b, 390 .....	22
Journalism 101 .....	3
Instructional Materials 406 .....	4
Government 232 .....	5
Geography 300 .....	4
Electives .....	11
<b>Total required for major teaching area .....</b>	<b>109</b>

**Mathematics**

Mathematics 111a,* 111b,* 150a, 150b, 252a, 252b .....	29
Physics 211a (211b and 211c recommended) ..	5
Electives in Mathematics 30 hours of 300 level courses (excluding Mathematics 310 and 410). Nine hours of courses must be 400 level or higher .....	30
Total required for major teaching area .....	64

A reading knowledge of a foreign language is required.

The student must earn a *C* or better for courses number 150 or higher to count towards the major.

**Music**

GSC 357a, 357b, 357c .....	(6) + 3
Music (theory) 105-12, 205-9, 326-4 or 441-4 .....	(3) + 22
Music (applied) 11 quarters of major ensemble	11
9 quarters of primary instrument or voice	18
Piano proficiency or class .....	0-6
Voice Proficiency or class .....	0-1
Music (education)	
Choral: 300a, 305v, 309a, 318a,c, 451 or Instrumental: 305i, 309a, 318a,b, 451, and class strings, woodwinds, brass and percussion .....	(6) 15-18
Music electives .....	9-6
Total required for major teaching area .	78-85

**Physical Education—Men**

GSE * (Any three of the one-hour activity courses, or	
Physical Education—Men 100A through M, <sup>1</sup> 101, 303, 305, 341, 350,* 354, 355, 370, 376, 420 <sup>2</sup> .....	46
Physiology 300 .....	4
Physical Education—Men: Any one sports theory course .....	2
Total required for major teaching area .....	52

<sup>1</sup> Four quarter hours of the total may be counted in the previously listed teaching methods requirements.

<sup>2</sup> Prerequisite: GSA 301.

370 substitutes for Guidance 422 on professional education requirements for majors.

## 22 / Teacher Education Programs

### Physical Education—Women

Physical Education—Women 113, 114, 211, 212, 222, 224, 228, 242, 244, 303, <sup>1</sup> 304a, 304b, 304c, 304d, 304e, 309, <sup>2</sup> 350, 351, 352, 353, 354, 355, 370 .....	53
Health Education 334s and 460 (or 350 for Elementary Education) .....	8
Electives .....	5
<b>Total required for major teaching area .....</b>	<b>66</b>

<sup>1</sup> Prerequisite: Physiology 300-3.

<sup>2</sup> Four hours have been counted previously in meeting the general education methods requirements.

### Physical Science

GSA 201a,* 201b,* 301,* 312 * .....	15
Botany 300, 301 .....	6
Chemistry 111a, 111b, 111c, 325, 305a, 305b, 350 .....	28
Microbiology 301 .....	5
Physics <sup>1</sup> 211a, 211b, 211c, 310 .....	18
Zoology 102, 103 .....	10
Physics Electives .....	7
<b>Total required for major teaching area .....</b>	<b>89</b>

<sup>1</sup> Prerequisites: GSD 114a, 114b, 114c.

### Physics

Physics 111a,b,c and 112a,b,c or 206a,b,c and 207a,b,c or 211a,b,c .....	12-15
33 hours of 300-level or above Physics courses including 301, 305a, 305b, 415a, 415b, 415c, 415d and six hours of laboratory courses selected from 307, 311, 312, 418 .....	27
Electives .....	9-10
<b>Total required for major teaching area ....</b>	<b>48-52</b>

### Social Studies

GSA 331 * .....	3 <sup>1</sup>
GSB 101b,* 101c,* 201b,* 201c,* 211a,* 211b,* or Government 300 or Government 231, 300a,* 300b,* 300c * .....	33 <sup>1</sup> -34
Economics 214, 215 .....	8
Government 232 .....	5
Sociology 301 .....	4
Geography 300, 302, 304, 306 .....	16

Electives: To total a minimum of 12 hours in each of the following: American history, civics and political science, economics, geography, sociology, world history, and 8 additional hours from American history . . . . . 27

Total required for major teaching area . . . . 96-97

<sup>1</sup> 27 hours of this total may be used to meet general studies requirements as follows: GSB 24 hours, GSA 3 hours.

**Special Education**

*Education of the Mentally Retarded*

Special Education 410b, 411, 413b, 414, 420b . . 20

Elementary Education 351b (Student teaching mentally retarded) . . . . . 12

Guidance 412, 422a . . . . . 8

Psychology 301 . . . . . 4

Speech Pathology and Audiology 428 . . . . . 4

Electives (300-level or above) . . . . . 8

Total required for major teaching area . . . . . 56

*Education of Maladjusted Children*

Special Education 410a, 411, 413a, 414, 420a . . . . . 20

Elementary Education 351b (Student teaching with Emotionally Disturbed), 337 . . 16

Guidance 305 . . . . . 4

Psychology 301, 305, 431, 465 . . . . . 16

Sociology 373 . . . . . 4

Electives . . . . . 8

Total required for major teaching area . . . . 68

*Education of the Acoustically Handicapped*

Special Education 410d, 413a, 414, 415, 420d, 421 . . . . . 24

Instructional Materials 301 . . . . . 2

Psychology 301 . . . . . 4

Guidance 422a . . . . . 4

Physiology 414 . . . . . 4

Speech Pathology and Audiology 200, 405a, 406, 416, 419 . . . . . 20

Total required for major teaching area . . . . . 58

**Speech**

GSC 200, 203 . . . . . (6)

GSD 103 . . . . . (3)

Speech 102,<sup>1</sup> 200 or 104, 202, 205, 209, 323,<sup>1</sup> 427 23



## 24 / Teacher Education Programs

Theater 111a or 111b or 111c, 208, and 402a ..	8
Speech Pathology and Audiology 428.....	4
Radio-Television 367 .....	3
Electives in Speech or Theater .....	10
<b>Total required for major teaching area .....</b>	<b>48</b>

<sup>1</sup> Prerequisite: GSD 103.

<sup>2</sup> Prerequisite: GSC 200.

### Speech Pathology and Audiology

GSB 201c .....	(4)
GSD 103 * .....	(3)
Speech Pathology and Audiology 200, 203 or 409, 212, 318, 405a,b,c (6 minimum- 12 maximum) 406, 412 or 415, 414, 416, 419 .....	46
Psychology 301 or Guidance 305 .....	4
Psychology 305 or Guidance 412 or Health Education 312 .....	4
Guidance 422a .....	4
GSB 331 or IM 417 or Ed. Ad. 355 .....	3-4
Special Ed. 200 or Special Ed. 414 .....	2-4
Elementary Ed. 314 and 337 .....	8
Elementary Ed. 351b .....	12-16
<b>Total required for major teaching area ....</b>	<b>83-90</b>

Practicum—200 clock hours required

### Technical and Industrial Education

#### *Industrial Arts Teaching*

GSA 358 .....	(6)
Mathematics 111 .....	(9) + 1
Technology 300c .....	3
Technical and Industrial Education 201a, 201b, 207, 305a, 305b, 307, 310a, 408,* 420a, 420b, 480, 491a .....	45
Sociology 338, Psychology 323 or 320, Eco- nomics 214, 215, Management 340, 341 ....	24
Technical and Industrial Education Electives .	4
<b>Total required for major teaching area .....</b>	<b>77</b>

#### *Technical Teaching*

Mathematics 111 .....	(9) + 1
Guidance 305 and Psychology 305 .....	4
Technical and Industrial Education 319, 408, 419, 491b, 495, 496 .....	32
Major concentration and related or supportive	

## Technical and Industrial Education / 25

areas .....	65
Electives .....	6
	6
Total required for major teaching area .....	108

### *Trades and Industries Teaching*

GSA 358 .....	(6)
Mathematics 111 .....	(9) + 1
Technology 100, 101a, 101b, 300 .....	11
Technology 259, Concentration in Specialty .....	45
Technical and Industrial Education 319 ..	12-24 <sup>1</sup>
Technical and Industrial Education 408, 491, 494, 495, 496 .....	15
	15
Total required for major teaching area ...	83-95

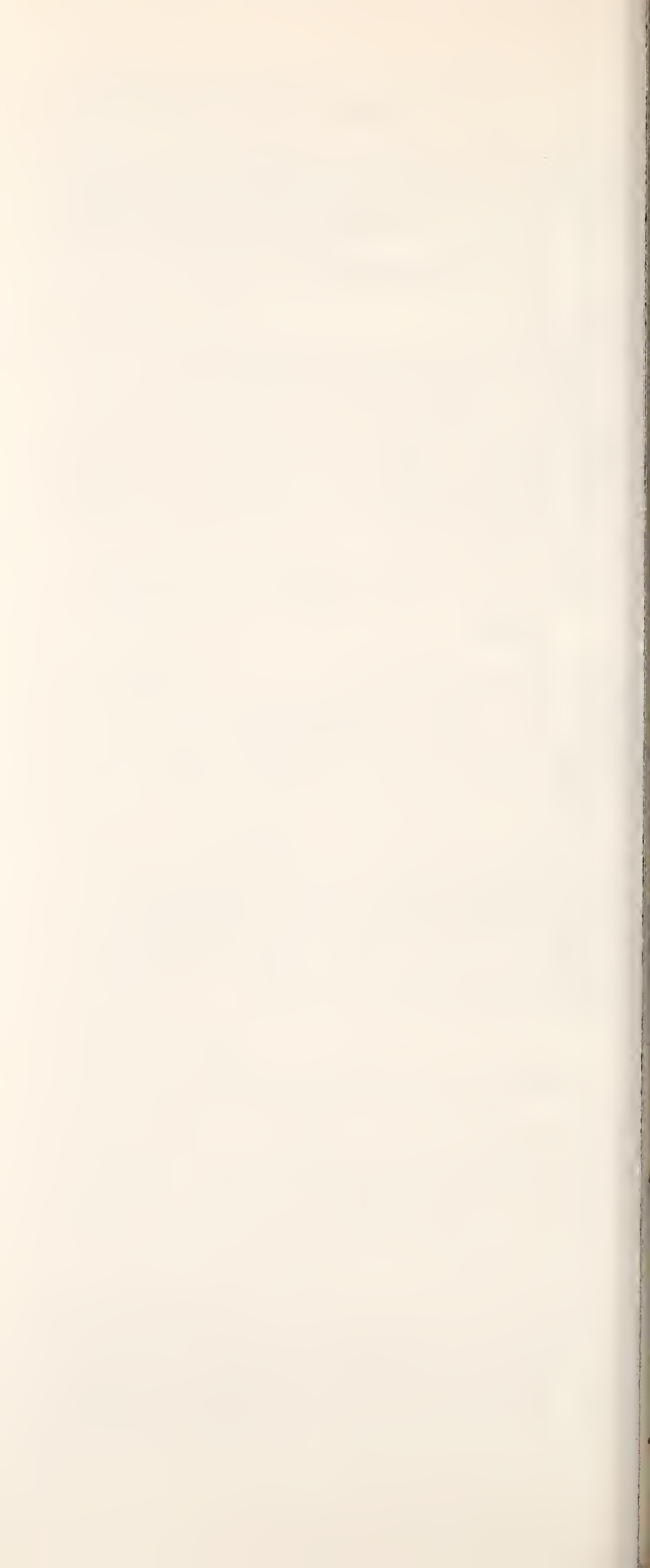
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<sup>1</sup> Hours depend upon number of months of trade experience.

### **Zoology**

Mathematics 111a, 111b .....	(9) + 1
Chemistry 111b, 111c .....	(4) + 6
GSA 201a,* 201b * or 210a,* 210b * ....	(4) + 4
Zoology 102, 103, 202, 300, 310, 382, 401 .....	31
Electives (May include GSA 312,* 313,* or 315 *) .....	13
	13
Total required for major teaching area .....	55

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for biological science or general science teaching certification, and a minor teaching area in botany is recommended to enable the student to certify to teach biology and botany.



# 3 / Minor Teaching Areas

## Biological Sciences

	QUARTER HOURS
GSA 201a,* b * or 202a,* b * .....	8
Botany 300, 301 .....	6
Microbiology 301 .....	5
Zoology 102, 103 .....	10
Biology Electives .....	5
Total required for minor teaching area .....	<u>36</u>

## Botany

GSA 201a,* 201b,* 340,* 345 * .....	(4) + 10
Botany 300, 301 .....	6
Electives in botany .....	<u>12</u>
Total required for minor teaching area .....	28

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for biological science or general science teaching certification, and a major teaching area of zoology is recommended to enable the student to certify to teach biology and botany.

## Chemistry

GSA 101b * with Chemistry 101b (equivalent to Chemistry 110) .....	4
Chemistry 111b and Chemistry 111c .....	10
Chemistry Electives: A minimum of 13 hours from at least two of the following: 235, 305a, 305b, 341a, 341b, 341c, 350 .....	<u>13</u>
Total required for minor teaching area .....	27

## Driver and Safety Education

Health Education 302s, 313s, 442s, 443s, 475s, 323s or 334s .....	24
Electives in Driver and Safety Education or Approved Cognate Courses .....	<u>6</u>
Total required for minor teaching area .....	30

**Economics**

GSB 211a *	3
GSD 110 * <sup>1</sup>	3
Economics 214, 215, 315	10
Electives (any three): Economics 310, 330, 429, 440 and 441	12
Total required for minor teaching area	28

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for social studies certificate.

<sup>1</sup> Prerequisite: GSD 108b \* or 114b \*

**English**

GSC 202,* and 201 * or 210 *	6
English 300a, 300b, 302a or 302c, 302b, 309a, 390	21
Electives from the following: GSC 317,* 318,* 345a,b,c,* 351a,b,* 365 *	3
Total required from minor teaching area	30

**Foreign Languages**

GSD 140a,* 140b,* (3,3,3 but counted toward foreign language minor as only)	6
Spanish 201a, 201b, 201c; <sup>1</sup> 310a, 310b, 310c; 320a, 320b, 320c; or 333a, 333b, 333c	24
Electives (May include 2-6 hours of Spanish conversation/composition, which electives should be in 300- or 400-level courses or FL-353: Methods of Teaching a Foreign Language)	6
Total required for minor teaching area	30-36

Concentrations are available in French, German, Spanish, Russian, Greek, and Latin. Other concentrations follow the model presented. Students having four years of high school Spanish begin with 300-level courses.

<sup>1</sup> Prerequisites: one year college FL or successful passing of placement tests in the case of students with three years or less of high school foreign language work.

**Geography**

GSA 331	3
Geography 300, 302, <sup>1 2</sup> 304, <sup>1</sup> 306, <sup>1</sup> one 400-level course <sup>1</sup>	20

Electives in Geography <sup>3</sup> .....	4
Total required for minor teaching area .....	<u>27</u>

<sup>1</sup> Prerequisite: Geography 300 (concurrent enrollment permitted).  
<sup>2</sup> Prerequisite: GSA 331-3.  
<sup>3</sup> Geography 443 strongly recommended.

**Government**

GSB 385,* 390 * .....	6
Government 231, 232, 305, 315, 330, 360, 371, 379, 380, 420, 466, 467, 472, 495 .....	<u>21</u>
Total required for minor teaching area .....	27

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for a social science teaching certificate.

**Health Education**

GSA 301 * .....	4
Health Education 300, 305, 312, 334s, 350 or 460, 471 .....	<u>23</u>
Electives in Health Education .....	<u>7</u>
Total required for minor teaching area .....	30

**History**

GSB 101b,* 101c,* 300a,* 300b,* 300c * .....	17
Electives: 300- or 400-level history courses balanced between American and foreign his- tory, at least six hours on the 400-level to total .....	<u>13</u>
Total required for minor teaching area .....	30

**Home Economics**

Home Economics Education 309 .....	6
Electives from the following, 25 hours:	
Clothing and Textiles 127, 131, 135, 233, 323, 327	
Food and Nutrition 105, 206, 320, 335	
Home and Family 227, 237, 332, 324, 341 ....	<u>25</u>
Total required for minor teaching area .....	31

**Instructional Materials**

Instructional Materials 308, 403, 405, 406, 407, 417,* 420 .....	<u>28</u>
Total required for minor teaching area .....	28



## 30 / Teacher Education Programs

### Mathematics

GSD 114b,* 114c *	6
Mathematics 150a, 150b, 252a	15
Electives (above 252 except 410)	12
Total required for minor teaching area	33

Students must earn a C or better for courses numbered 150 or higher to count towards the minor teaching area.

### Microbiology

Microbiology 301 and 302	10
Electives in Microbiology	14
Total required for minor teaching area	24

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for a biological science teaching certificate.

### Philosophy

GSC 102,* 207,* 208,* 301,* 382,* 483 *	18
Philosophy 301 and 340	8
Electives	4
Total required for minor teaching area	30

This must be taken in conjunction with some other major teaching area. The student should consult with his adviser for appropriate combinations.

### Physical Education—Men

GSA 301 *	4
Physical Education—Men 100A through M, <sup>1</sup> 303, 305, 350, 354, 370, 376	36
Physiology 300	4
Total required for minor teaching area	44

<sup>1</sup> Four hours of the total may be counted in the previously listed teaching methods requirements.

### Physical Education—Women

#### *Secondary School Teaching*

Physical Education—Women 113, 212, 222, 224, 242, 304a, 304b, 304c, 304d, 304e, 309, <sup>1</sup> 353, 354	24
Health Education 334s	4

Electives (activity courses) . . . . .	2
<i>Elementary School Teaching</i>	
Physical Education—Women 113, 212, 222 or GSE 112, 113b,d, 304a, 304b, 309, <sup>1</sup> 350 or 319, 353, 354 . . . . .	22
Health Education 334s . . . . .	4
Electives (Activity Courses) . . . . .	4
<i>Teaching Minor (Dance)</i>	
Physical Education—Women 212, 222, 242 or GSE 113a,b,d,e, 273, 309, <sup>1</sup> 312, 313, 374, 376, 405 . . . . .	23
Music 200 . . . . .	3
Electives . . . . .	2-4
Total required for minor teaching area . . . . .	30

<sup>1</sup> Four hours have been counted previously in meeting the general education methods requirements.

**Physics**

Physics 206a,b,c, and 207 or 211a,b,c . . . . .	12-15
Electives from the following: Physics 300, 301a, 305a,b, 310, or 405 . . . . .	12
Total required for minor teaching area . . . . .	27

The prerequisite for each course in the left hand column below is listed in the middle column below. The prerequisites for the courses in the middle column are listed in the right hand column.

<i>Physics</i>	<i>Prerequisites</i>	<i>Math Prerequisites</i>
206a,b	GSD 114c*	3 sem. hrs. H.S. Algebra
211a,b	Math 150b	Math 150a
300	Math 252b	Math 150b and Math 252a
301a	Math 305a	Math 252b
305	Math 305a	Math 252b
405	Math 305a	Math 252b

**Physiology**

GSA 302 * . . . . .	3
Physiology 315a, 315b, 315c <sup>1</sup> . . . . .	15
Electives: (Courses in botany and zoology are recommended) . . . . .	9
Total required for minor teaching area . . . . .	27

It is recommended that the student complete the Illinois Office of Public Instruction's requirements for the biological science major teaching area.

<sup>1</sup> Prerequisite: GSA 201a, 201b, 201c.



## 32 / Teacher Education Programs

### Speech

Speech 102, <sup>1</sup> 202, 205, 209, 323, <sup>1</sup> 406 . . . . .	21-22
Theater 208 or 308, 402a . . . . .	4-6
Electives with departmental approval . . . . .	2-5
Total required for minor teaching area . . . . .	<u>30</u>

<sup>1</sup> Prerequisite: GSC 200, GSD 103.

### Technical and Industrial Education

#### *Industrial Arts Teaching*

Technology 100, 101a, 101c . . . . .	8
Industrial Technology 309a, 312a, 320a, 322a, 327a, 332a, 343a . . . . .	24
Technical and Industrial Education 491a * . . . . .	3
Elective . . . . .	<u>1</u>
Total required for minor teaching area . . . . .	36

### Zoology

GSA 201a,* 201b * . . . . . (4) + 4	
Zoology 102, 103, plus one lab numbered above 199 . . . . .	14-15
Electives to total required hours . . . . .	<u>8-9</u>
Total required for minor teaching area . . . . .	27

It is recommended that the student elect courses to meet the Illinois Office of Public Instruction's requirements for biological science or general science teaching certification, and a major teaching area in botany is recommended to enable the student to certify to teach biology and botany.

