

# **67-69 CATALOG**

**SUPPLEMENT FOR THE DEPARTMENT OF EDUCATION**

**R. L. Steiner**



**LEWIS AND CLARK COLLEGE**

**PORTLAND, OREGON**

## THE TEACHER PREPARATION PROGRAM AT LEWIS AND CLARK COLLEGE

Lewis and Clark College is accredited by the Northwest Association of Secondary and Higher Schools and the National Council for the Accreditation of Teacher Education. The programs detailed in this brochure leading to the Basic (four year) Certificate and the Standard (five year) Certificate in Elementary, Junior High School and High School teaching are fully approved by the State Board of Education for the State of Oregon. The accreditation by the National Council for the Accreditation of Teacher Education carries with it the reciprocal agreement with more than thirty of the fifty states. This means that, upon completion of the approved program in teacher preparation at Lewis and Clark College, the student is eligible for certification to teach, not only in Oregon, but also in the other states included in the above mentioned thirty.

The material in this brochure describes three teacher preparation programs: (1) the Elementary Education Major, (2) the Junior High School Education Major and (3) the program of studies, both professional and subject matter, offered to meet certification regulations for High School teachers in twelve fields. Listed are requirements for the first teaching certificate, the Basic Certificate, as well as the requirements for the Standard certificate which is granted after completion of the planned fifth year of college work and two years of successful teaching in the public schools.

Students who are seriously considering teaching as a career are urged to visit the office of the Department of Education early in their college career. Careful and detailed planning is necessary to include coursework in preparation for certification. Such planning can avoid the necessity for extra terms of work in summer or during the year after graduation. Oregon grants teaching certificates to graduates of colleges provided the college recommends the student. Lewis and Clark recommends students only after they have completed the approved program as outlined in this brochure.

### *Directions for Correspondence and Information*

The mailing address is: Department of Education,  
LEWIS AND CLARK COLLEGE, 0615 S.W. Palatine Hill  
Road, Portland, Oregon 97219. Telephone 636-3601,  
area code 503.

# THE BASIC AND STANDARD CERTIFICATES FOR ELEMENTARY TEACHERS

## Teaching Certificates

### The Basic Certificate for Elementary Teachers

All candidates recommended by Lewis and Clark for the Basic Certificate for Elementary Teachers (kindergarten through grade 8 of elementary school) must complete the regular four-year degree requirement for graduation as outlined below. This program constitutes a major in Elementary Education and will be followed as closely as possible. Some adjustment in the sequence of courses may be made to clear conflicts or to adjust class loads.

#### First Year

Civ. 111	History of Western Civilization	1
Civ. 122	History of Western Civilization	1
Civ. 133	History of Western Civilization	1
Psych. 101	Fundamentals . . . . .	1
Sp. Arts 101	Fundamentals . . . . .	1
H&PE 100	Health and Hygiene . . . . .	1
H&PE 101, 102, 103, 104, 105	Activities . . . . .	1
	Electives . . . . .	3

#### Second Year

English	Literature (See graduation requirements) . . . . .	2
Religion	(See graduation requirements) . . . . .	1
Physics 101, 102, 103	Physical Science . . . . .	2
	(Select 2 of the 3 courses)	
Math. 111	Logical Structure of Mathematics . . . . .	1
Creative Arts	Art, Music, Theatre, Speech (History or Appreciation) . . . . .	2
	(See explanation of activity credits for third year junior high)	
Music 238	Elementary School Choral Methods . . . . .	1/2
Ed. 310	Elementary School Art . . . . .	1/2
	Elective . . . . .	1

#### Third Year

Ed. 301	Social Foundations of Education	1
Ed. 302	Child Psychology and Lab. . . . .	1
Ed. 304	Educational Psychology and Laboratory . . . . .	1
H&PE 320	Elementary Physical Education	1
Geog. 102	Human Geography . . . . .	1
Biol. 111 or 133	General Biology . . . . .	1
Hist. 211	History of the U.S., 1607-1865	1
Pol. Sci. 101	United States Government . . . . .	1
	Elective . . . . .	1

#### Fourth Year

Ed. 400	Elementary Social Studies and Language Arts . . . . .	1
Ed. 411	Elementary School Mathematics and Science . . . . .	1
Ed. 412	Reading and Literature in the Elementary School . . . . .	1
Ed. 405	Supervised Student Teaching in Elementary School . . . . .	3
	Electives . . . . .	3

### The Standard Certificate for Elementary Teachers

(Not required but available to candidates who complete the course work indicated below and meet other requirements such as experience and proper recommendations. See Chairman of Department of Education for details.)

Lewis and Clark will recommend for the Standard Certificate those students who have completed a total of 10 courses beyond those required for the baccalaureate degree, to include the following:

A. Five courses in Education to be distributed in the following areas:

1. Philosophy and/or History of Education
2. Elementary teaching methods in addition to those required for the Basic norm
3. Adolescent Psychology
4. Any two of:
  - a. Curriculum
  - b. Evaluation of learning
  - c. Guidance and counseling
  - d. Educational teaching media

B. College preparation in each of the following areas (during the five years) with a concentration of six courses or more in one of the areas:

1. Language Arts
2. Social Science
3. Mathematics
4. Health and Physical Education
5. Art
6. Music
7. Science
8. Foreign Language (not required but permitted)

C. The remainder of the 10 courses required may be elected from the college offering in Education or the concentration areas listed above.

# THE BASIC CERTIFICATE FOR JUNIOR HIGH SCHOOL TEACHERS

## The Basic Certificate for Junior High School Teachers

All candidates recommended by Lewis and Clark for the Basic Certificate for Junior High School Teachers (grades 7 and 8 or 7, 8 and 9 of a regularly organized junior high school; grades 8 and 9 of a five-year high school or 7, 8 and 9 of a six-year high school) must complete the regular four-year degree requirement for graduation as outlined below. This program constitutes a major in Junior High School Education and will be followed as closely as possible. Some adjustment in the sequence of courses may be made to clear conflicts or to adjust class loads.

### First Year

Civ. 111	History of Western Civilization	1
Civ. 122	History of Western Civilization	1
Civ. 133	History of Western Civilization	1
Psych. 101	Fundamentals . . . . .	1
H&PE 100	Personal Health and Hygiene .	1
H&PE 101, 102, 103, 104, 105	Activities . . . . .	1
	Teaching norm or electives . .	3

### Second Year

English	Literature (English, American or European in translation) . .	2
Religion	(See graduation requirements) .	1
Pol. Sci. 101	U.S. Government . . . . .	1
Science	Lab. Science, Mathematics or Logic (One course from two areas or two from one area) .	2
Ed. 301	Social Foundations of Education	1
	Teaching norm . . . . .	2

### Third Year

Creative Arts	Art, Theatre, Music . . . . .	2
	(One course in history or appreciation and participation for 3 terms in activity courses with 1/3 course credit per term)	
Ed. 302 ✓	Child Psychology and Laboratory	1
Ed. 303 -	Adolescent Psychology and Laboratory . . . . .	1
Ed. 304 -	Educational Psychology and Laboratory . . . . .	1
Ed. 433 ✓	Teaching of Reading, Secondary	1
	Teaching norm . . . . .	3

### Fourth Year

Ed. 315 ✓	The Junior High School, Its Role and Curriculum . . . .	1
Ed. 404	General Methods of Teaching in Secondary Schools . . . .	1
Ed. 408	Supervised Student Teaching in Junior High School . . . . .	2
	Teaching norm or electives . .	5

The candidate may choose any one of the five teaching fields detailed below from which to complete the course work for the Basic norm in his teaching field. In each of the five fields the work required for the fifth year is outlined.

### Fifth Year

The Junior High School teacher may teach for three years with the Basic certification. During this three years the work of the planned fifth year must be started. After the completion of the planned fifth year of work the student is eligible for the Standard certificate. The work in the subject matter area is detailed below in each norm. The professional course work for the Standard certificate is the same for all candidates and consists of:

Ed. 406	Special Methods in Secondary School Teaching . . . . .	1
Ed. 505	Curriculum . . . . .	1
Ed. 506	Principles of Counseling and Guidance . . . . .	1
Ed. 409	Diagnostic and Remedial Techniques in Basic Skills .	1

### ART

#### The Four Year Norm

*Art 111	History of Art . . . . .	1
*Art 122	History of Art . . . . .	1
*Art 133	History of Art . . . . .	1
(Art 204—Music and Art in Modern Times may be substituted for Art 133.)		
Art 113, 124, 135	Form in Drawing . . . . .	1
Art 114, 125, 136	Basic Design . . . . .	1
	(1/3 course credit each term)	
Art 116, 127, 138	Ceramics . . . . .	1
	(1/3 course credit each term)	
Art 117, 128, 139	Lettering: Calligraphy . . . .	1
	(1/3 course credit each term)	
Art 118, 129, 130	Crafts . . . . .	1
	(1/3 course credit each term)	

*\*take two courses out of the three.*

# THE BASIC CERTIFICATE FOR JUNIOR HIGH SCHOOL TEACHERS

**Art 213, 224, 235	Sculpture . . . . .	1
Art 214, 225, 236	Form in Painting . . . . .	1
	(1/3 course credit each term)	
**Art 215, 226	The Human Figure in Drawing . . . . .	2/3
	(1/3 course credit each term)	

*\*\*accumulate one course credit from those two.*

## The Fifth Year Norm

Art 115	Form in Color . . . . .	1/3
Art 214, 225, 236	Form in Painting (2nd year) . . . . .	1
	(1/3 course credit each term)	
Art 215, 226, 237	The Human Figure in Drawing (2nd year) . . . . .	1
	(1/3 course credit each term)	
Art 216, 227, 238	Advanced Ceramics . . . . .	1
	(1/3 course credit each term)	
Art 304, 305, 306	History of Art . . . . .	3
	(1 course credit each term)	
Art 314, 325, 336	Graphic Arts . . . . .	1
	(1/3 course credit each term)	
Art 415, 426, 437	Advanced Design . . . . .	1
	(1/3 course credit each term)	

## LANGUAGE ARTS—SOCIAL STUDIES

(For teachers teaching combined classes of language arts and social studies in either the junior or senior high school, ninth grade.)

### The Four Year Norm

Eng. 101, 102 or 103	Humanities . . . . .	1
Eng. 201-	Creative Writing . . . . .	1
Eng. 213, 223, 233 (any two)	American Literature . . . . .	2
Eng. 212, 222, 321, 302 or 303 (any one)	English Literature . . . . .	1
Eng. 403	Dev. of English Language . . . . .	1
Sp. Arts 222	Interpretation of Literature . . . . .	1

### Social Studies:

Civ. 111	History of Western Civilization . . . . .	1
Civ. 122	History of Western Civilization . . . . .	1
Civ. 133	History of Western Civilization . . . . .	1
Hist. 211	History of U.S., 1607-1865 . . . . .	1
Hist. 222	History of U.S. since 1865 . . . . .	1
Geog. 101	Physical Geography . . . . .	1
Geog. 102	Human Geography . . . . .	1
Pol. Sci. 101	U. S. Government . . . . .	1
Econ., Soc., or Anthropology	1 course chosen from these fields . . . . .	1

## The Fifth Year Norm

In addition to the four courses in professional education, six more courses in either the Language Arts or the Social Studies area are required. The major adviser will help the student in his selection of upper-division or graduate level courses to complete his plan for the fifth year of work.

## MATHEMATICS

### The Four Year Norm

Math. 111	Logical Structure of Mathematics . . . . .	1
Math. 112	Introduction to Modern Math. . . . .	1
Math. 123	Introduction to Modern Math. . . . .	1
Math. 113	University Mathematics . . . . .	1
Math. 124	University Mathematics . . . . .	1
Math. 135	University Mathematics . . . . .	1
Math. 136	Statistics and Probability . . . . .	1
Math. 213	Mathematical Analysis . . . . .	1

### The Fifth Year Norm

In addition to the four courses in professional education, six courses chosen from the listing below are required:

Math. 224	Mathematical Analysis . . . . .	1
Math. 235	Mathematical Analysis . . . . .	1
Math. 322	Linear Algebra . . . . .	1
Math. 333	Higher Algebra . . . . .	1
Math. 311	Introduction to Higher Geometry . . . . .	1
Math. 411	Advanced Calculus . . . . .	1
Math. 422	Advanced Calculus . . . . .	1
Math. 433	Seminar . . . . .	1

## MUSIC

Holders of a Standard Certificate for teaching music in the senior high school may teach music at all levels from kindergarten through senior high school.

## PHYSICAL EDUCATION

### The Four Year Norm

H&PE 100	Personal Health and Hygiene . . . . .	1
H&PE 101, 102, 103, 104, 105	PE Activities . . . . .	1
	(1/3 course credit per term)	
H&PE 211	Human Anatomy . . . . .	1

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H&PE 222	Prevention and Care of Injuries	1
H&PE 233	Human Physiology . . . . .	1
H&PE 311	Advanced Hygiene . . . . .	1
H&PE 314	Foundations of PE . . . . .	1
H&PE 322	Teaching of Secondary Health Education . . . . .	1
H&PE 325	Administration of H&PE . . . .	1

## Required Activities:

H&PE 101	Physical Fitness	} $\frac{1}{3}$ course credit per term with at least 8 activities required.
H&PE 102	Aquatics	
H&PE 103	Rhythms	
H&PE 104	Gymnastics	
H&PE 105	Sports	

## The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. Unless the six listed below appear in part or wholly in the four year program they are required in the fifth year. The major adviser will plan the fifth year so all the norm requirements are met.

H&PE 214	Rhythms Laboratory . . . . .	1
H&PE 225	Sports Laboratory . . . . .	1
H&PE 511	Theory of Body Movement and Adapted P.E. . . . .	1
H&PE 522	Evaluation in H&PE . . . . .	1
H&PE 533	Mental Hygiene . . . . .	1

## PHYSICAL SCIENCE—GENERAL SCIENCE

### The Four Year Norm

Math. 111	Logical Structure of Math. . . .	1
Math. 112	Introduction to Modern Math.	1
Math. 123	Introduction to Modern Math.	1
Biol. 111	General Biology . . . . .	1
Biol. 122	General Biology . . . . .	1
Biol. 133	General Biology . . . . .	1
Chem. 111	General Chemistry . . . . .	1
Chem. 122	General Chemistry . . . . .	1
Phys. 121	General Physics . . . . .	1
Phys. 132	General Physics . . . . .	1
Phys. 103	Physical Science (Earth Science)	1

### The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. At least four of the six must be in college science work. The major adviser will assist the student in planning his total fifth year program.

# THE BASIC CERTIFICATE FOR HIGH SCHOOL TEACHERS

## The Basic Certificate for High School Teachers

(Three- and four-year high schools)

All candidates recommended by Lewis and Clark College for the Basic Certificate for Senior High School Teachers must complete the regular four-year degree requirements of the college, finish preparation in the Basic teaching norm and complete these minimum professional courses in this sequence:

Psych. 101	Fundamentals . . . . .	1
Ed. 301	Social Foundations of Education . . . . .	1
Ed. 303	Adolescent Psych. and Lab . . . . .	1
Ed. 304	Educational Psych. and Lab . . . . .	1
Ed. 404	General Methods of Secondary Teaching . . . . .	1
Ed. 407	Supv. Student Teaching in Secondary School . . . . .	2

All candidates recommended by Lewis and Clark College for the Standard Certificate for Senior High School Teachers must complete 10 courses of college work above the baccalaureate degree to include the completion of the work required for the Standard teaching norm and the Professional Education work listed below. (All other requirements established by the State Board of Education must also be met. See the Chairman of Department of Education for details.)

Ed. 302	Child Psychology . . . . .	1
Ed. 433	Teaching of Reading, Secondary . . . . .	1
Ed. 503	History of Education . . . . .	1
or 504	Philosophy of Education . . . . .	1
(One course chosen from the following)		1
Ed. 439	Teaching Media . . . . .	1
Ed. 502	Evaluation of Learning . . . . .	1
Ed. 505	Curriculum . . . . .	1
Ed. 506	Principles of Counseling and Guidance . . . . .	1

The Lewis and Clark approved four- and five-year Basic and Standard norms are listed below. The candidate must, at the time he applies for admission to the Teacher Preparation Program, prepare and submit his total five-year projected program on forms supplied by the Department of Education. The projected plan must bear the signature of the student's major adviser before the application for admission will be considered.

Recommendation may be made for the Basic certificate upon completion of the professional Education work and at least one of the subject-matter norms outlined below under "four year norm." A student may request recommendation for a Basic certificate in a second area upon completion of the minimum preparation required by the State Board of Education provided he also presents the

complete preparation required by Lewis and Clark College in his major teaching area.

Recommendation may be made for the Standard certificate upon completion of two years of successful teaching in the public schools and completion of the professional Education work required in the fifth year and the course work listed in the norms below under "fifth year norm."

## ART

### The Four Year Norm

Art 111	History of Art . . . . .	1
Art 122	History of Art . . . . .	1
Art 133	History of Art . . . . .	1
Art 113, 124, 135	Form in Drawing . . . . .	1
	(1/3 course credit each term)	
Art 114, 125, 136	Basic Design . . . . .	1
	(1/3 course credit each term)	
Art 117, 128, 139	Lettering: Calligraphy . . . . .	1
	(1/3 course credit each term)	
Art 118, 129, 130	Crafts . . . . .	1
	(1/3 course credit each term)	
Art 213, 224, 235	Sculpture . . . . .	1
	(1/3 course credit each term)	
Art 214, 225, 236	Form in Painting . . . . .	1
	(1/3 course credit each term)	
Art 215, 226	The Human Figure in Drawing . . . . .	2/3
	(1/3 course credit each term)	

Art 304, 305 or 306 History of Art . . . . . 1  
One additional course credit selected from the following: Ceramics, Form in Color, Painting (2nd year), The Human Figure in Drawing or Graphic Arts . . . . . 1

### The Fifth Year Norm

Art 116, 127, 138	Ceramics . . . . .	1
	(1/3 course credit each term)	
Art 214, 225, 236	Form in Painting (the 2nd year)	1
Art 215, 226	The Human Figure in Drawing (2nd year) . . . . .	1
	(1/3 course credit each term)	
Art 216, 227, 238	Advanced Ceramics . . . . .	1
	(1/3 course credit each term)	
Art 304, 305 or 306	History of Art . . . . .	1
	(if not part of undergraduate program)	
Art 314, 325, 336	Graphic Arts . . . . .	1
	(1/3 course credit each term)	
Art 400 or 499	Special Problems . . . . .	1
	Senior Project . . . . .	1

Not required  
for S.H.S.

# THE BASIC CERTIFICATE FOR HIGH SCHOOL TEACHERS

## BIOLOGY

### The Four Year Norm

Biol. 111	General Biology . . . . .	1
Biol. 122	General Biology . . . . .	1
Biol. 133	General Biology . . . . .	1
	(Above includes Evolution, Ecology and Anatomy)	
Biol. 211	Comparative Anatomy . . . . .	1
Biol. 212	Genetics . . . . .	1
Biol. 222	Embryology (Developmental Biology) . . . . .	1
Biol. 232 or 335	Field Biology . . . . .	1
	Ecology . . . . .	1
Biol. 336	Animal Physiology . . . . .	1

### The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. The student will plan his fifth year program, in consultation with his adviser, from the courses listed below or from allied coursework:

Biol. 308	Microbiology . . . . .	1
Biol. 311	Methods in Biology . . . . .	1
Biol. 324	Parasitology . . . . .	1
Biol. 332	Invertebrate Zoology . . . . .	1
Biol. 334	Plant Physiology . . . . .	1
Biol. 335	Ecology . . . . .	1
Biol. 400	Research . . . . .	1
	(May be taken as a full course in one term, or distributed over three terms, 1/3 course per term.)	

## BUSINESS EDUCATION

### The Four Year Norm

BA 101, 102, 103	Typing (3 terms, 1/3 course ea.)	1
BA 201, 202, 203	Typing (3 terms, 1/3 course ea.)	1
BA 105, 106, 107	Shorthand (3 terms, 2/3 course each) . . . . .	2
BA 205, 206, 207	Shorthand (3 terms, 2/3 course each) . . . . .	2
(Any or all of the above may be waived upon successful demonstration of skill by examination.)		
BA 110	Business Organization and Procedure . . . . .	1
BA 210	Principles of Accounting . . . . .	1
BA 211	Principles of Accounting . . . . .	1
BA 225	Business Law . . . . .	1
BA 435	Office Practice . . . . .	1
Econ. 101	Principles of Economics . . . . .	1
Econ. 102	Principles of Economics . . . . .	1

### The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. The student's adviser will assist in planning the program from the following:

BA 232	Business Ethics . . . . .	1
BA 240	Management Processes . . . . .	1
Econ. 103	Statistics . . . . .	1

Elective courses from upper division offerings in Economics, English, Sociology and Political Science.

## CHEMISTRY

### The Four Year Norm

Chem. 111	General Chemistry . . . . .	1
Chem. 122	General Chemistry . . . . .	1
Chem. 133	Quantitative Analysis . . . . .	1
Chem. 211	Organic Chemistry . . . . .	1
Chem. 222	Organic Chemistry . . . . .	1
Chem. 311	Physical Chemistry . . . . .	1
Chem. 422	Inorganic Chemistry . . . . .	1

### The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. The student's adviser will assist in planning the program from the following and from allied coursework:

Chem. 233	Organic Qualitative Analysis . . . . .	1
Chem. 322	Physical Chemistry . . . . .	1
Chem. 333	Physical Chemistry . . . . .	1
Chem. 411	Analytic Chemistry . . . . .	1
Chem. 413	Biochemistry . . . . .	1
Chem. 423	Inorganic Chemistry . . . . .	1

## FOREIGN LANGUAGES

### The Four Year Norm

#### French, German, or Spanish

Lang. 101	Beginning Language . . . . .	1
	(French, German or Spanish)	
Lang. 102	Beginning Language . . . . .	1
Lang. 200	Conversation . . . . .	1
	(1/3 course credit per term)	
Lang. 201	Intermediate Language . . . . .	1
Lang. 202	Intermediate Language . . . . .	1
Lang. 301	Composition . . . . .	1
Lang. 311	Literature and Civilization of a Given Period . . . . .	1
Lang. 322	Literature and Civilization of a Given Period . . . . .	1
Lang. 333	Literature and Civilization of a Given Period . . . . .	1
Lang. 411, 422, 433	Prose, Drama, Poetry . . . . .	1
	(Any one of the three)	

# THE BASIC CERTIFICATE FOR HIGH SCHOOL TEACHERS

## The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. The student's adviser will assist in planning the program from the following and from allied coursework:

Lang. 400	Directed Readings . . . . .	1
Lang. 544	Phonetics and Applied Linguistics . . . . .	1
Lang. 545	Culture and Civilization of the Language . . . . .	1
Foreign Languages 546	Special Methods of Teaching Languages . . . . .	1
Eng. 405	Structural Linguistics . . . . .	1

## HEALTH AND PHYSICAL EDUCATION

### The Four Year Norm

H&PE 100	Personal Health and Hygiene . . . . .	1
	(with activities)	
H&PE 211	Human Anatomy . . . . .	1
H&PE 222	Prevention and Care of Injuries . . . . .	1
H&PE 233	Human Physiology (Phys. of Exercise) . . . . .	1
H&PE 314	Foundations of PE . . . . .	1
H&PE 325	Organization and Admin. of H&PE . . . . .	1
H&PE 311	Advanced Hygiene . . . . .	1
H&PE 322	Teaching of Secondary Health Methods . . . . .	1
H&PE 333	School Health Program . . . . .	1
H&PE Activities:		
H&PE 101	Physical Fitness	} 1/3 course credit per term with at least 8 activities required.
H&PE 102	Aquatics	
H&PE 103	Rhythms	
H&PE 104	Gymnastics	
H&PE 105	Sports	

### The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. The student's adviser will assist in planning the program from the following and from allied course work:

H&PE 511	Theory of Body Movement and Adapted Physical Education (Kinesiology) . . . . .	1
H&PE 522	Evaluation in Health and PE . . . . .	1
H&PE 533	Mental Hygiene . . . . .	1
H&PE 520	Community Health Problems . . . . .	1
Elective courses in H&PE		
H&PE 111, 122, 133	Sports Officiating . . . . .	1

## H&PE 336

H&PE 431
H&PE 432
H&PE 433
H&PE 434
H&PE 214
H&PE 225

Principles of Recreation and Camp Leadership . . . . .	1
Coaching of Basketball . . . . .	1
Coaching of Baseball . . . . .	1
Coaching of Football . . . . .	1
Coaching of Track and Field . . . . .	1
Rhythms Laboratory . . . . .	1
Sports Laboratory . . . . .	1

## LANGUAGE ARTS

### The Four Year Norm (with Major in English)

Eng. 101, 102 or 103	Humanities . . . . .	1
Eng. 201	Creative Writing . . . . .	1
Eng. 213, 223, 233	American Literature (any two courses) . . . . .	2
Eng. 212, 222, 302, 321, 303	English Literature (any two courses) . . . . .	2
Eng. 304, 305, 306 or 307	Major Figures . . . . .	1
Eng. 403	Development of the English Language . . . . .	1
Ed. 433	Teaching of Reading, Secondary	1
Sp. Arts 222	Speech (Interpretation of Literature) . . . . .	1

(After this point *all* work *must* be upper division.)

### The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. The student's adviser will assist in planning the program from the following and from allied course work:

Eng. 302, 303, 321	English Lit. (if not incl. above) . . . . .	1
Eng. 304, 305, 306 or 307	Major Figures (if not incl. above) . . . . .	1
Eng. 327	The Novel English and American . . . . .	1
Eng. 411	Literary Criticism (required for Standard norm) . . . . .	1

### The Four Year Norm (with Major in Journalism and a concentration in social studies)

Journalism 111	Introduction to Journalism . . . . .	1
Journalism 122	News Writing . . . . .	1
Journalism 133	News Editing . . . . .	1
Journalism 301	History and Sociology of the Newspaper . . . . .	1

# THE BASIC CERTIFICATE FOR HIGH SCHOOL TEACHERS

Two more courses in Journalism . . . . .	2
Civ. 111 History of Western Civilization . . . . .	1
Civ. 122 History of Western Civilization . . . . .	1
Civ. 133 History of Western Civilization . . . . .	1
Hist. 211 History of the U.S., 1607 to 1865 . . . . .	1
Hist. 222 History of the U.S. since 1865 . . . . .	1
Pol. Sci. 101 U. S. Government . . . . .	1
Pol. Sci. 102 Comparative Political Systems (or Pol. Sci. elective) . . . . .	1
Econ. 101 Principles of Economics . . . . .	1
Econ. 214 Comparative Economic Systems (or Econ. elective) . . . . .	1
Geog. 101 Physical Geography . . . . .	1
Geog. 102 Human Geography . . . . .	1
Sociology or Anthropology Two courses from either or one from each . . . . .	2

## The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. The student's adviser will assist in planning the program from the following:

Journalism 211 Publications Laboratory . . . . .	1
(H. S. Publications)	
Journalism 234 Feature Article Writing . . . . .	1
Journalism 401, 403 Special Problems Seminar (to include advanced copy editing and advanced work in publica- tions). . . . .	1

Recommended course work in Social Science, English and Art 422-433, Advertising Layout and Techniques of Illustration.

## The Four Year Norm (with Major in Journalism and a concentration in English)

Journalism 111 Introduction to Journalism . . . . .	1
Journalism 122 News Writing . . . . .	1
Journalism 133 News Editing . . . . .	1
Journalism 301 History and Sociology of the Newspaper . . . . .	1
Two more courses in Journalism . . . . .	2
Eng. 101, 102 or 103 Humanities (World Literature). . . . .	1
Eng. 212, 222, 302, 303, 321 English Literature (Any two courses) . . . . .	2

Eng. 213, 223, 244 American Literature (Any two courses) . . . . .	2
Eng. 304, 305, 306 or 307 Major Figures (one course) . . . . .	1
Eng. 403 Development of Eng. Language . . . . .	1
Ed. 433 Teaching of Reading, Secondary . . . . .	1
Sp. Arts 222 Interpretation of Literature . . . . .	1

## The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. The student's adviser will assist in planning the program from the following:

Journalism 211 Publications Laboratory . . . . .	1
(H. S. Publications)	
Journalism 234 Feature Article Writing . . . . .	1
Journalism 401, 403 Special Problems Seminar (to in- clude advanced copy editing and advanced work in publications) . . . . .	2

Recommended course work in Social Science, English and Art 422-433, Advertising Layout and Techniques of Illustration.

## The Four Year Norm (with Major in Speech)

Sp. Arts 101 Fundamentals of Speech . . . . .	1
Sp. Arts 204 Speech Activities (3 terms, 1/3 course each) . . . . .	1
Sp. Arts 211 Debate . . . . .	1
Sp. Arts 222 Interpretation of Literature . . . . .	1
Sp. Arts 223 Persuasive Speech . . . . .	1
Sp. Arts 234 Discussion . . . . .	1
Sp. Arts 301 Speech Science and Diction . . . . .	1
Sp. Arts 304 Speech Seminar (2 terms) . . . . .	2
Theatre 133 Acting Theory . . . . .	1
Theatre 134 Directing . . . . .	1

(May be waived with permission of chairman of Department of Speech Arts and chairman of Department of Theatre.)

## The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. The student's adviser will assist in planning the program to include the following:

Sp. Arts 302 Phonetics (advanced speech) . . . . .	1
Sp. Arts 334 Advanced Interpretation . . . . .	1
Theatre 401 Seminar . . . . .	1

# THE BASIC CERTIFICATE FOR HIGH SCHOOL TEACHERS

## The Four Year Norm (with Major in Theatre)

The student will complete the major as outlined in the general catalog and in addition complete the following courses in Speech Arts:

Sp. Arts 101	Fundamentals of Speech . . .	1
Sp. Arts 301	Speech Science and Diction . .	1

(May be waived with permission of chairman of Department of Speech Arts and chairman of Department of Theatre.)

## The Fifth Year Norm

Please see the fifth year for the Speech major. The fifth year programs are identical.

## MATHEMATICS

### The Four Year Norm

Math. 111	Logical Structure of Math. . .	1
Math. 112	Introduction to Modern Math. .	1
Math. 123	Introduction to Modern Math. .	1
Math. 113	University Mathematics . . .	1
Math. 124	University Mathematics . . .	1
Math. 135	University Mathematics . . .	1
Math. 213	Mathematical Analysis . . . .	1
Math. 224	Mathematical Analysis . . . .	1
Math. 235	Mathematical Analysis . . . .	1
Math. 136	Statistics and Probability . . .	1
Math. 322	Linear Algebra . . . . .	1
Math. 311	Introduction to Higher Geometry	1

### The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. The student's adviser will assist in planning the program from the following courses and allied course work:

Math. 333	Higher Algebra . . . . .	1
Math. 411	Advanced Calculus . . . . .	1
Math. 422	Advanced Calculus . . . . .	1
Math. 433	Seminar . . . . .	1

## MUSIC

### The Four Year Norm

Music 111, 121, 131, 211 and 221	Theory . . . . .	5
Music 112, 122	Survey of Music Literature . .	1½

Music 233	Interpretative Analysis . . . .	1
Music 311	Secondary School Choral Methods and Conducting . .	1
Music 312	Orchestration . . . . .	¾
Music 316 or 326	Seminar in Music History . .	1
Music 321	Elementary and Secondary Instrumental Methods— Conducting . . . . .	1
Music 323	Choral Arranging and Composition . . . . .	¾
Music 331	Choral and Instrumental Literature and Conducting .	1
Music 100	Applied Study (3 courses minimum) . . . .	3
Music 101 through 107	Participation in large and small music organizations (4 courses minimum) . . . .	4

### The Fifth Year Norm

The Music student will take the four courses in professional education, but the fifth year Music norm is completed within the four year norm. However six courses in Music or allied fields will be required to complete the fifth year requirement, including Music 316 or 326 whichever was not taken before, and Music 323.

## PHYSICS

### The Four Year Norm

Physics 121	General Physics . . . . .	1
Physics 132	General Physics . . . . .	1
Physics 205	Mechanics . . . . .	1
Physics 230	Elements of Nuclear Physics .	1
Physics 305	Electricity and Magnetism . .	1
Physics 401	Quantum Mechanics . . . . .	1
Physics 402	Atomic Physics . . . . .	1
Physics 200, 300, 400	Seminars and Labs for Sophomores, Juniors and Seniors (½ course each) . .	1

### The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. The student's adviser will assist in planning the program to include the following and allied courses:

Physics 206	Mechanics (considered upper division) . . . . .	1
Physics 306	Electricity and Magnetism. . .	1
Physics 321	Astrophysics I . . . . .	1
Physics 332	Astrophysics II . . . . .	1

# THE BASIC CERTIFICATE FOR HIGH SCHOOL TEACHERS

## SOCIAL STUDIES

Certification in the teaching of Social Studies may be earned by students majoring in:

Economics  
History  
International Affairs  
Political Science  
Sociology

Students majoring in one of these disciplines and preparing to teach may elect to take the degree of Bachelor of Science rather than the degree of Bachelor of Arts.

### The Four Year Norm (with Major in Economics)

Specific course requirements of the Economics Department will be waived for Economics majors preparing for secondary teaching. However, the student will be required to present a minimum of eight courses in Economics for graduation and must include in the eight those courses specified below. A comprehensive examination in Economics is required in the senior year.

The required work for recommendation for the Basic norm is as follows:

Civ. 111	History of Western Civilization	1
Civ. 122	History of Western Civilization	1
Civ. 133	History of Western Civilization	1
Econ. 101	Principles of Economics . . .	1
Econ. 102	Principles of Economics . . .	1
Econ. 103	Elements of Statistics . . . . .	1
Econ. 421	Research Seminar . . . . .	1

(Four more courses in Economics chosen in consultation with the student's major adviser.)

Hist. 211	History of U. S., 1607-1865 . .	1
Hist. 222	History of U. S. since 1865 . .	1
Pol. Sci. 101	U. S. Government . . . . .	1
Pol. Sci. 104	State and Munic. Government	1
Geog. 101	Physical Geography . . . . .	1
Geog. 102	Human Geography . . . . .	1
Sociology or Anthropology	Two courses from either or one from each . . . . .	2

### The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. The six courses must be within the social science areas listed above. The student's adviser will help plan a program to strengthen the student's teaching area.

### The Four Year Norm (with Major in History)

The History major is expected to take 12 courses in History in addition to the courses in History of Western

Civilization. The student preparing to teach Social Studies in the public schools may present work in two courses in Political Science and two courses in Economics to apply on the 12 courses for the History major. The required work for recommendation for the Basic norm is as follows:

Civ. 111	History of Western Civilization	1
Civ. 122	History of Western Civilization	1
Civ. 133	History of Western Civilization	1
Hist. 211	History of the U. S., 1607-1865	1
Hist. 222	History of the U. S. since 1865	1
Hist. 300	Historiography . . . . .	1

Five courses elected from the History Department offering . . . . . 5

Pol. Sci. 101	U. S. Government . . . . .	1
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One course elected from:

Pol. Sci. 104	State and Municipal Government	1
Pol. Sci. 302	Political Parties and Public Opinion . . . . .	1

Two courses elected from:

Econ. 101	Principles of Economics . . .	1
Econ. 222	Economic History of U. S. . .	1
Econ. 214	Comparative Economic Systems	1
Geog. 101	Physical Geography . . . . .	1
Geog. 102	Human Geography . . . . .	1
Sociology or Anthropology	Two courses from either or one from each . . . . .	2

### The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. The six courses must be within the social science areas listed above. The student's adviser will help plan a program to strengthen the student's teaching area.

### The Four Year Norm (with Major in International Affairs)

The student preparing to teach Social Studies in the public schools may present work in two courses in Political Science and two courses in Economics to apply on the major in International Affairs.

Civ. 111	History of Western Civilization	1
Civ. 122	History of Western Civilization	1
Civ. 133	History of Western Civilization	1
Pol. Sci. 101	U. S. Government . . . . .	1
Pol. Sci. 102	Comparative Government . .	1
Hist. 211	History of the U.S., 1607 to 1865	1
Hist. 222	History of the U.S. since 1865 .	1
Econ. 101	Principles of Economics . . .	1
Econ. 214	Comparative Economic Systems	1
Int. Affairs 121	Policies of the Powers . . . .	1

# THE BASIC CERTIFICATE FOR HIGH SCHOOL TEACHERS

Int. Affairs 131	Basic Factors . . . . .	1
Int. Affairs 211	International Organization . .	1
Int. Affairs 233	History of Int. Affairs . . . .	1
Int. Affairs 311	U. S. Foreign Policy . . . . .	1
Int. Affairs 430	Seminar . . . . .	1
Geog. 101	Physical Geography . . . . .	1
Geog. 102	Human Geography . . . . .	1
Sociology or Anthropology	Two courses from either or one from each . . . . .	2

## The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. Majors in International Affairs will be counseled to plan their fifth year in the field of Political Science.

## The Four Year Norm (with Major in Political Science)

Civ. 111	History of Western Civilization	1
Civ. 122	History of Western Civilization	1
Civ. 133	History of Western Civilization	1
Pol. Sci. 101	U. S. Government . . . . .	1
Pol. Sci. 102	Comparative Political Systems	1
Pol. Sci. 302	Political Parties and Public Opinion . . . . .	1
Pol. Sci. 305	Constitutional Law . . . . .	1
Pol. Sci. 310	Political Theory . . . . .	1
Pol. Sci. 399	Reading and Conference for Juniors . . . . .	1
Pol. Sci. 406	Senior Seminar . . . . .	1

## One course selected from:

Pol. Sci. 104	State and Munic. Government	1
Pol. Sci. 307	Government and the Economy.	1
Pol. Sci. 311	United States Foreign Policy .	1

## One course selected from:

Pol. Sci. 131	Basic Factors of International Affairs . . . . .	1
Pol. Sci. 211	International Organization . .	1
Pol. Sci. 333	International Law . . . . .	1
Hist. 211	History of the U. S., 1607-1865	1
Hist. 222	History of the U. S. since 1865	1

## Two courses selected from:

Econ. 101	Principles of Economics. . . .	1
Econ. 222	Economic History of the U. S..	1
Econ. 214	Comparative Economic Systems	1
Geog. 101	Physical Geography . . . . .	1
Geog. 102	Human Geography . . . . .	1
Sociology or Anthropology	Any two courses in either field or one from each . . . . .	2

## The Fifth Year Norm

In addition to the four courses in professional education, six more courses are required to complete the fifth year. The six courses must be within the social science areas listed above. The student's adviser will help plan a program to strengthen the student's teaching norm.

## The Four Year Norm (with Major in Sociology)

The student preparing to teach Social Studies in the public schools may present work in two courses in Political Science and two courses in Economics to apply on the major in Sociology.

Civ. 111	History of Western Civilization	1
Civ. 122	History of Western Civilization	1
Civ. 133	History of Western Civilization	1
Soc. 101	Introduction to Sociology . . .	1
Soc. 122	Social Organization . . . . .	1
Soc. 201 or	Survey of Anthropology . . . .	1
Soc. 335	Cultural Anthropology . . . . .	1
Soc. 212 or	Population . . . . .	1
Soc. 226	Rural and Urban Communities	1
Soc. 312	Juvenile Delinquency . . . . .	1
Soc. 432	Personality, Group and Culture	1
Soc. 333	The Family . . . . .	1
Hist. 211	History of the U. S., 1607-1865	1
Hist. 222	History of the U. S. since 1865.	1
Pol. Sci. 101	U. S. Government . . . . .	1

## One more course in Political Science chosen from:

Pol. Sci. 104	State and Munic. Government .	1
Pol. Sci. 302	Political Parties and Public Opinion . . . . .	1
Geog. 101	Physical Geography . . . . .	1
Geog. 102	Human Geography . . . . .	1

## Two courses elected from:

Econ. 101	Principles of Economics. . . .	1
Econ. 122	Economic History of the U. S. .	1
Econ. 214	Comparative Economic Systems	1

## The Fifth Year Norm

In addition to the four courses in professional education six more courses are required to complete the fifth year. The six courses must be within the social science areas listed above. The student's adviser will help plan a program to strengthen the student's teaching area.

**THE TEACHER PREPARATION PROGRAM  
AT LEWIS AND CLARK COLLEGE**

*Master of Arts in Teaching*

1. The Master of Arts in Teaching is offered to teachers in:
  - a. Elementary Teaching
  - b. Junior High School Teaching
  - c. Senior High School Teaching

Ordinarily some teaching experience is considered desirable before completion of the course work for the degree.

2. The Master of Arts in Teaching program for Senior High School Teaching is based upon completion of the requirements for the Standard Certificate for Senior High School. This means that the student will complete all professional education requirements as well as the subject matter norm requirements for the Standard Certificate. At least 11 courses of college work are required. In some cases the total credits earned will exceed 11 courses. The number of courses required depends upon the subject matter area in which the student is working.
3. The Master of Arts in Teaching program for Junior High School Teaching is based upon completion of the requirements for the Standard Certificate in Junior High School Education. This means that the student will complete all professional education requirements and either two Basic norms or one Standard norm in courses taught in the Junior High School or a Standard norm in Language Arts-Social Studies.
4. The Master of Arts in Teaching program for Elementary Teaching is based upon completion of the requirements for the Standard Certificate in Elementary Education

with the addition of a second area of concentration. This means that the student will complete all professional education requirements and present 20 semester hours of concentration in two academic areas rather than the one area required by the State of Oregon.

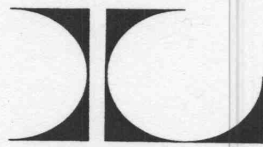
*The Internship leading to the Degree of  
Master of Arts in Teaching*

The internship programs include half-day teaching experience in high schools for a full school year—September through May or June — with a stipend of \$2,100.00. Course work on campus is carried on during the academic year also.

The programs include a summer session before and after the teaching experience. Upon completion of the two summers and the year of teaching experience and the academic course work required, the student in addition to receiving the degree of Master of Arts in Teaching will be eligible for the Basic certificate for teaching in Oregon and in most cases for the Standard certificate following the two years of teaching which is a part of the requirement for the Standard certificate.

There are two programs for interns. Both programs are based upon the baccalaureate degree and both require that the student shall have taken one course in General Psychology or the equivalent. The total preparation for teaching is the same in either program.

For details of the above graduate studies programs, please write to Director of Graduate Studies, Lewis and Clark College, 0615 S.W. Palatine Hill Road, Portland, Oregon 97219.



**Lewis and Clark College, Portland, Oregon 97219**