

Course Requirements for Major and Minor Teaching Fields

In accordance with Administrative Rules of the Montana Office of Public Instruction which were in effect when this catalog was printed, individuals seeking secondary licensure must complete requirements for a single-field teaching major (40 or more credits depending on the field) or a teaching major (30 or more credits depending on the field) and a teaching minor (20 or more credits depending on the field). In the event that the Montana Office of Public Instruction changes program standards for major or minor teaching fields, the University reserves the right to modify the requirements listed.

Art

Grades K-12. Qualifies as a single-field endorsement.

For an endorsement in the extended major teaching field of Art, a student must complete the requirements for a Bachelor of Arts with a major in Art with an Art Education option (see the School of Art section in this catalog and below). Individuals holding a baccalaureate degree must meet those requirements by completing the courses or demonstrate course equivalency.

	Maj.
ARTZ 105A (ART 101A) Visual Language: Drawing	3
ARTZ 106A (ART 102A) Visual Language: 2-D Fndtns	3
ARTZ 108A (ART 103A) Visual Language: 3-D Fndtns	3
ARTH 200H-201H (ART 150H-151H) Art of World Civilization I, II	6
ARTH 250L (ART 203L) Introduction to Art Criticism	3
ARTZ 284A (ART 215) Photography I - Techs and Processes	3
ARTZ 211A (ART 223) Drawing I	3
ARTZ 231A (ART 229A) Ceramics I	3
ARTZ 271A (ART 233A) Printmaking I	3
ARTZ 251A (ART 235) Sculpture I	3
ARTZ 221A (ART 240A) Painting I	3
ARTZ 402-403 (ART 407-408) Teaching Art K-12 I, II (coreq EDU 395 (C&I 301 or 302))	6
DANC 497 (DAN 427) Methods: Teaching Movement in Schools	3
ARTZ upper-division studio courses	12
ARTH upper-division art history courses	6
Art upper-division art criticism	3
Total Credits	66

Biology

Grades 5-12. Qualifies as a single-field endorsement.

For an endorsement in the extended major teaching field of Biology a student must complete the requirements for the B.A. with a major in Biology, option in Biological Education (see the Biology section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For endorsements in the minor teaching field of Biology, a student must complete the courses in the minor teaching field listed below or demonstrate course equivalency.

	Maj	Min.
BIOB 170N-171N (BIOL 108N-109N) Principles Biological Diversity & Lab	5	5
BIOB 160N (BIOL 110N) Principles of Living Systems	4	4
BIOB 260 (BIOL 221) Cellular and Molecular Biology	4	4
BIOB 272 (BIOL 223) Genetics and Evolution	4	4
BIOB 301 (BIOL 301) Developmental Biology or BIOL 435 Comparative Animal Physiology	3	-
BIOE 370-371 (BIOL 340-341) General Ecology and Laboratory	5	-
BIOO 433/434 (BIOL 444-445) Plant Physiology and Laboratory	4	-
BIOM 360-361 (MICB 300-301) General Microbiology and Laboratory	5	5
EDU 497 (C&I 426) Methods: 5-12 Science (coreq (EDU 395 (C&I 301 or 302))	3	3
M 162 (MATH 150) Applied Calculus or M 171 (MATH 152) Calculus I	4	4
STAT 216 (MATH 241) Introduction to Statistics	4	4
CHMY 121N, 123N, 124N (CHEM 151N-152N, 154N) General and Inorganic and Organic and Biological Chemistry and Laboratory (major only)	8	6
CHMY 485 (CHEM 485) Laboratory Safety	1	1

PHSX 205N-206N (PHYS 111N-113N) College Physics I/Lab	5	-
GEO 105N (GEOS 105N) Oceanography or GEO 108N (GEOS 108N) Climate Change	3	3
Total Credits	62	43

A biology major qualifies as a single-field endorsement. Although not required, it is recommended that students complete a second teaching major or minor.

Business and Information Technology Education

Grades 5-12. Qualifies as a single-field endorsement.

For licensure in the major teaching field of Business and Information Technology Education, a student must complete the requirements for a B.S. in Business Administration with a major in one of the following: accounting, finance, management, management information systems, or marketing. They also must complete the business and information technology education coursework. The course list below illustrates the management information systems major. Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For licensure in the minor teaching field of business and information technology education, a student must complete the courses in the minor teaching field listed below or demonstrate course equivalency.

	Maj	Min.
ACTG 201 (ACCT 201) Principles of Financial Accounting	3	3
ACTG 202 (ACCT 202) Principles of Managerial Accounting	3	-
BGEN 235 (BADM 257) Business Law	3	3
C&I 287 Business Communications	3	3
C&I 341 Information Management & Design	3	3
EDU 497 (C&I 429) Methods: 5-12 Business Subjects (coreq EDU 395 (C&I 301 & 302))	4	4
EDU 472 (C&I 444) Advanced Technology and Supervision	3	3
COMM 111A Intro to Public Speaking	3	-
CSCI 172 (CS 172) Introduction to Computer Modeling	3	3
ECNS 201S (ECON 111S) Principles of Microeconomics	3	3
ECNS 202 (ECONS 112S) Principles of Macroeconomics	3	-
BFIN 322 (FIN 322) Business Finance	3	-
BMIS 270 (MIS 270) MIS Foundation of Business	3	-
BMGT 322 (MIS 341) Operations Management	3	-
BMIS 365 (MIS 371) Business Applications Development	3	-
BMIS 370 (MIS 370) Managing Information and Data	3	-
BMIS 372 (MIS 372) Information Infrastructures: A Strategic Perspective	3	-
BMIS 373 (MIS 373) Systems Analysis and Design	3	-
BMIS 476 (MIS 476) Integrated Project Management for IS	3	-
M 115 (MATH 117) Probability and Linear Math	3	3
STAT 216 (MATH 241) Introduction to Statistics	4	-
BMGT 340S (MGMT 340S) Management and Organizational Behavior	3	-
BMGT 486 Strategic Venture Management	3	-
BGEN 499 Integrative Business Simulation	1	-
BMKT 325 (MKTG 360) Marketing Principles	3	3
Total Credits	75	31

Business and Information Technology Education qualifies as a single-field endorsement. Although not required, it is recommended that students complete a second teaching major or minor.

Chemistry

Grades 5-12. Qualifies as a single-field endorsement.

For an endorsement in the major teaching field of Chemistry, a student must complete the requirements for the B.A. with a major in Chemistry, with appropriate electives, and with the addition of CHMY 485 (CHEM 485). A student also must complete STAT 216 (MATH 241), BIOL 380, C&I 426 and SCI 350 (see the Department of Chemistry section of this catalog and below). The foreign language requirement is waived by the Department of Chemistry for students using the B.A. degree for teacher licensure. Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For endorsement in the minor teaching field of Chemistry, a student must complete the courses in the minor teaching field listed below or demonstrate course equivalency.

	Maj.	Min.
CHMY 101N (CHEM 101) Chemistry for the Consumer	-	3
CHMY 141N & 143N (CHEM 161N-162N) College Chemistry and Laboratory	10	10
CHMY 221-222-223 (CHEM 221-222-223) Organic Chemistry and Laboratory	-	8
CHMY 221, 222, 223, 225 (CHEM 221, 222, 223, 264) (or 224 in place of 225 (CHEM 264)) Organic Chemistry and Lab	10	-
CHMY 302E (CHEM 334) Chemistry Literature and Scientific Writing	3	-
CHMY 360 (CHEM 370) Applied Physical Chemistry or CHMY 373 (CHEM 371) Phys Chem-Kntcs & Thrmdynmcs	-	3-4
CHMY 373-371 (CHEM 371-372) Phys Chem-Qntm Chm & Spctrscopy & Phys Chem-Kntcs & Thrmdynmcs	8	-
CMHY 311 (CHEM 341) Analytical Chem-Quant Analysis	4	4
CHMY 421 (CHEM 342) Advanced Instrument Analysis	4	-
CHMY 401-403 (CHEM 452-453) Advanced Inorganic Chemistry & Descriptive Inorganic Chem	6	-
CHMY 485 (CHEM 485) Laboratory Safety	1	1
CHMY 494 (CHEM 494) Seminar/Workshop	1	-
BCH 380 (BIOC 380) Biochemistry	4	4
CSCI 172 (CS 172) Intro to Computer Modeling	3	3
M 171, 172, AND 273 (MATH 152, 153, and 251) Calculus I, II, and III	12	-
M 162 (MATH 152) Applied Calculus	-	4
STAT 216 (MATH 241) Introduction to Statistics	4	4
PHSX 215N-216N-217N-218N (PHYS 211N-213-212N-214N) Fundamentals of Physics with Calculus I & II & Labs	10	-
PHSX 205N-206N-207N-208N (PHYS 111N-113N-112N-114N) College Physics I & II & Labs	-	10
SCI 350 Environmental Perspectives	2	2
EDU 497 (C&I 426) Methods: Science 5-12 C&I Teaching Science in Middle & Secondary Schools (coreq EDU 395 (C&I 301 or 302))	3	3
Total Credits	85	59-60

A chemistry major qualifies as a single-field endorsement.

Although not required, it is recommended that students complete a second teaching major or minor.

Dance, Specialization in Education

Grades K-12. Area of Permissive Special Competency only.

This minor leads to an area of permissive special competency in dance for those attaining or holding a Montana teaching license. It does not qualify as a teaching endorsement in Montana.

	Maj
DANC 220A (DAN 201A) Beginning Composition	2
DANC 298 (DAN 428) Internship: Children's Dance	2
DANC 300 (DAN 300) Modern III or DANC 310 (DAN 304) Ballet III	2-3
DANC 360L (DAN 335L) World Dance	3
DANC 440 (DAN 425) Dance Pedagogy	3
DANC 497 (DAN 427) Methods: Teaching Movement in Schools	6
Students should choose one course in Jazz, Tap, Social Dance, Cultural/World Dance or Traditional/Indigenous Dance (as available; by advisement)	2
Total Credits	20-21

Earth Science

Grades 5-12. Major only. Does not qualify as a single field endorsement.

For an endorsement in the major teaching field of Earth Science, a student must complete the requirements for the B.S. with a major in Geosciences, Earth Science Education option (see the Department of Geosciences section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

	Maj.
GEO 101N-102N (GEOS 100N-101N) Intro to Physical Geology & Lab	4
GEO 105N (GEOS 105N) Oceanography	2
GEO 231 (GEOS 230) Geosciences Field Methods	3
GEO 226 (GEOS 226) Rocks, Minerals & Resources	4
GEO 211 (GEOS 200) Earth Hist & Evolution or GEO 228 Earth Surface Processes	2-3
GEO 310 (GEOS 310) Invertebrate Paleontology	3
GEO 315 (GEOS 330) Structural Geology	3

GEO (GEOS) any course numbered 100 or above	3
GEO (GEOS) Courses numbered 300 or above	12
ERTH 303N Weather and Climate (GEOG 322N Meteorology)	3
ASTR 131N-132N Elementary Astronomy	6
M 151 (MATH 121) Precalculus	4
STAT 341 (MATH 341) Introduction to Probability and Statistics	3
CSCI 100 (CS 101) Introduction to Programming	3
EDU 497 (C&I 426) Methods: 5-12 Science (coreq. EDU 395 (C&I 301 OR 302))	3
BIOE 172N (BIOL 121N-122N) Introductory Ecology or CHMY 121N-123N (CHEM 151N-152N) Intro to General Chemistry & Intro to Organic & Biochem or PHSX 205N-206N-207N-208N (Phys 111N-113N-112N-114N) College Physics I & II /Lab	4-10
CHMY 485 (CHEM 485) Laboratory Safety	1
Total Credits	63-70

The demand for teaching in this field is limited. The required second endorsement (either a teaching major or teaching minor) should be in a field in high demand.

Economics

Grades 5-12. Does not qualify as a single field endorsement.

For an endorsement in the major teaching field of Economics, a student must complete the requirements for the B.A. with a major in Economics (see the Department of Economics section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For an endorsement in the minor teaching field of Economics, a student must complete the courses in the minor teaching field listed below or demonstrate course equivalency.

	Maj	Min.
ECNS 201S-202S (ECON 111S-112S) Principles of Micro- and Macroeconomics	6	6
ECNS 301 (ECON 311) Intermediate Microeconomics with Calculus	3	3
ECNS 302 (ECON 313) Intermediate Macroeconomics	3	3
ECNS 403 (ECON 460) Introduction to Econometrics	4	-
Economics electives 300-level or above	14	6
ECNS 488, 494, 499 (ECON 488, 487, 489) Senior Thesis sequence	6	-
EDU 497 (C&I 428) Methods: 5-12 Social Studies (coreq. EDU 395 (C&I 301 or 302))	3	3
M 115 (MATH 117), 162 (MATH 150) or 171-172 (MATH 152-153) Probability, Linear Math, Applied Calculus OR Calculus I, II 7-8	-	-
STAT 216 (MATH 241) Introduction to Statistics	4	-
Total Credits	50-51	21

The demand for teaching in this field is limited. The second endorsement (either teaching major or teaching minor) should be in a field in high demand.

English

Grades 5-12. Qualifies as a single-field endorsement.

For an endorsement in the extended major teaching field of English, a student must complete the requirements for the B.A. with a major in English, English Teaching option (see the Department of English section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For an endorsement in the minor teaching field of English, a student must complete the courses in the minor teaching field listed below or demonstrate course equivalent.

	Maj	Min.
LIT 220L (ENLT 217L) Brit Lit: Med to Renaissance or LIT 221L (ENLT 218L) Brit Lit: Enlightenment to Rom	3	3
Choose 2: LIT 222L (ENLT 219) Brit Lit: Victorian to Contemp, LIT 210L (ENLT 224L) American Lit I, LIT 211L (ENLT 225L) American Lit II	6	6
LIT 300 (ENLT 301) Literary Criticism	3	3
LIT 327 (ENLT 320) Shakespeare	3	3
One course in poetry chosen from LIT 120L (ENLT 121L), LIT 201 or ENCR 211A	3	-
One 300-level LIT (ENLT) course with an American literature focus	3	3
One 300-level LIT (ENLT) course with a diversity focus	3	3

ENLI 465 Structure and History of English for Teachers	3	3
ENT 439 Studies in Young Adult Literature	3	3
ENT 440 Teaching Writing	3	3
ENT 441 Teaching Reading and Literature	3	3
ENT 442 Teaching Oral Language and Media Literacy (coreq. EDU 395 (C&I 301 or 302) with either ENT 440, 441, or 442)	3	3
English Electives	6	-
Total Credits	45	36

An English major qualifies for a single-field endorsement.

Although not required, it is recommended that students complete a second teaching major or minor.

English as a Second Language*

Grades K-12. Minor only.

For an endorsement in the minor teaching field of English as a Second Language, a student must complete the courses in the minor teaching field as listed in the Linguistics section of this catalog and listed below or demonstrate course equivalency.

	Min.
LING 470 Linguistic Analysis	3
LING 471 Phonetics and Phonology	3
LING 472 Generative Syntax	3
LING 477 Bilingualism or 478 Second Language Development	3
At least two courses from the following:	
LING 466 Pedagogical Grammar	
LING 473 Language and Culture	
LING 475 Linguistics Field Methods	
LING 476 Child Language Acquisition	
LING 489 Morphology	6
LING 480 Teaching English as a Foreign Language	3
LING 491 ESL Practicum	3
Total Credits	24

*Students must have the equivalent of two years of a foreign language. Non-native speakers of English must take an English competency examination administered by the chair of the Linguistics Program. Courses required for the teaching minor cannot be taken on a credit/no credit basis.

French*

Grades K-12. Qualifies as a single-field endorsement.

For an endorsement in the extended major teaching field of French, a student must complete the requirements for the B.A. with a major in French including FRCH 400 (FREN 401) and MCLG 410 (see the Department of Modern and Classical Languages and Literatures section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For an endorsement in the minor teaching field of French, a student must complete the courses in the minor teaching field listed below or demonstrate course equivalency.

MCLG 410 Methods of Teaching Foreign Languages (prereq. to student teaching; coreq. C&I 301 or 302)

	Maj	Min.
FRCH 101-102 (FREN 101-102) Elementary French	10	10
FRCH 201-202 (FREN 201-202) Intermediate French	8	8
FRCH 301 (FREN 301) Oral and Written Expression	3	3
FRCH 350 (FREN 302) French Civilization and Culture	3	3
Three French Literature courses from the following: FRCH 310, 311, 312, 313 (FREN 311L, 312L, 313L)	9	-
FRCH 400 (FREN 401) Applied Linguistics	3	3
FRCH 421 (FREN 408) Advanced Composition and Conversation	3	-
FRCH (FREN) literature at the 400-level	3	-
FRCH (FREN) upper-division electives (of which 3 cr. must be culture or literature)	6	-
LING 270 Introduction to Linguistics	3	3
MCLG 410 Methods of Teaching Foreign Languages (coreq. EDU 395 (C&I 301 or 302))	3	3

Total Credits

54 33

*The Department of Modern and Classical Languages and Literatures requires a recommendation of the student's language proficiency and an overall minimum grade point average of 3.00 in upper-division course work in both the teaching major and minor as a prerequisite to student teaching. Study in a French language country, provided either through UM's Study Abroad Program or an experience considered to be equivalent also is required.

A French major qualifies as a single-field endorsement. Although not required, it is recommended that students complete a second teaching major or minor.

General Science Broadfield Major

Grades 5-12. Qualifies as a single-field endorsement.

For an endorsement in the extended major field of General Science, a student must complete the requirements for the B.A. with a major in Biology, Ecology option (see the Biology section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

ASTR 131N, 134N Elementary Astronomy and Laboratory	4
BIOB 170N-171N (BIOL 108N-109N) Principles Biological Diversity and Laboratory	5
BIOB 160N (BIOL 110N) Principles of Living Systems	4
BIOB 260 (BIOL 221) Cellular and Molecular Biology	4
BIOB 272 (BIOL 223) Genetics and Evolution	4
BIOE 370-371 (BIOL 340-341) General Ecology and Laboratory	5
CHMY 141N-143N (CHEM 161N-162N) College Chemistry I & II and Laboratory	10
CHMY 123N (CHEM 152N) Intro to Organic and Biological Chemistry	3
CHMY 485 (CHEM 485) Laboratory Safety	1
GEO 101N-102N (GEOS 100N-101N) Intro to Physical Geology and Laboratory	4
GEO 105N (GEOS 105N) Oceanography or GEO 108N (GEOS 108N) Climate Change	3
M 162 (MATH 150) Applied Calculus or M 171 (MATH 152) Calculus I	4
STAT 216 (MATH 241) Introduction to Statistics	4
PHSX 205N-206N-207N-208N (PHYS 111N-113N-112N-114N) College Physics I & II & Labs or PHSX 215N-216N-217N-218N (PHYS 211N-213-212N-214N) Fundamentals of Physics with Calculus I & II & Labs	10
EDU 497 (C&I 426) Methods: 5-12 Science (coreq. EDU 395 (C&I 301 or 302))	3
Total Credits	68

Geography

Grades 5-12. Does not qualify as a single field endorsement.

For an endorsement in the major teaching field of Geography, a student must complete the requirements for the B.A. degree with a major in Geography (an option is not required; see the Department of Geography section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For an endorsement in the minor teaching field of Geography, a student must complete the courses for the minor teaching field listed below or demonstrate course equivalency.

	Maj.	Min.
GPHY 121S (GEOG 101S) Human Geography	3	3
GPHY 111N (GEOG 102) Introduction to Physical Geography	3	3
GPHY 112 (GEOG 105) Intro to Physical Geography Lab	1	1
GPHY 141S (GEOG 103S) Geography of World Regions or another regional course	3	3
GPHY 385 (GEOG 385) Field Techniques or GPHY 497 (GEOG 471) Workshop in Teaching Geography	2-3	-
GPHY 381/382 (GEOG 387/389) Principles of Digital Cartography and Laboratory	4	-
(minor may choose GPHY 385 or GPHY 381/382 (GEOG 387/389))	-	2-4
Three upper-division systematic geography courses one each from the fields of physical geography, human-environmental interaction, and geography and society (two for minor)	9	6
EDU 497 (C&I 428) Methods: 5-12 Social Studies (coreq. C&I 301 or 302)	3	3
Electives (minimum of 36 geography credits is required)	10-12	-
Total Credits	39-40	21-23

The demand for teaching in this field is limited. The required second endorsement (either a teaching major or

teaching minor) should be a field in high demand.

German*

Grades K-12. Qualifies as a single-field endorsement.

For an endorsement in the extended major teaching field of German, a student must complete the requirements for the B.A. with a major in German including MCLG 410 (see the Department of Modern and Classical Languages and Literatures section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For an endorsement in the minor teaching field of German, a student must complete the courses in the minor teaching field listed below or demonstrate course equivalency.

	Maj	Min.
GRMN 101-102 (GERM 101-102) Elementary German	10	10
GRMN 201-202 (GERM 201-202) Intermediate German	8	8
GRMN 301-302 (GERM 301-302) Oral and Written Expression I and II	6	6
GRMN 311 and 312 or 318 (GERM 311-313) Intro to German Literature	6	-
GRMN 400 (GERM 403) Applied Linguistics	3	3
GRMN (GERM) literature at 400-level	6	-
Two courses from the following: GRMN 322L, 350, 351H, 352H, 362Y (GERM 361L, 355, 303H, 304H, 362H)	6	-
GERM upper-division electives	3	-
GRMN 351H, 352H, 350, 322L, or 362Y (GERM 303H, 304H, 355, 361L or 362H)	-	3
LING 270S Introduction to Linguistics	3	3
MCLG 410 Methods of Teaching Foreign Languages (coreq. EDU 395 (C&I 301 or 302))	3	3
Total Credits	54	36

*The Department of Modern and Classical Languages and Literatures requires a recommendation of the student's language proficiency and an overall minimum grade point average of 3.00 in upper-division course work in both the teaching major and minor as a prerequisite to student teaching. Study in a German language country, provided either through UM's Study Abroad Program or an experience considered to be equivalent also is required.

A German major qualifies as a single-field endorsement. Although not required, it is recommended that students complete a second teaching major or minor.

Government

Grades 5-12. Does not qualify as a single field endorsement.

For an endorsement in the major teaching field of Government, a student must complete the requirements for the B.A. degree with a major in Political Science (see the Department of Political Science section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For an endorsement in the minor teaching field of Government, a student must complete the courses for a minor teaching field listed below or demonstrate course equivalency.

	Maj	Min.
PSCI 210S (PSC 100S) Introduction to American Government	3	3
PSCI 220S (PSC 120S) Introduction to Comparative Government	3	3
PSCI 230X(PSC 130E) International Relations	3	3
PSCI 250E (PSC 150E) Political Theory	3	3
PSCI (PSC) one 300-400 level course in four of the five fields:		
1) American Government		
2) Public Administration		
3) Political Theory		
4) Comparative Government		
5) International Relations	12	-
PSCI (PSC) one 300-400 level course in three of the five fields:		
1) American Government		
2) Public Administration		
3) Political Theory		

4) Comparative Government		
5) International Relations	-	9
PSCI (PSC) electives in upper- division political science	12	-
PSCI 400 Adv Writing in Political Science	1	-
EDU 497 (C&I 428) Methods: 5-12 Social Studies (coreq. C&I 395 (301/302)	3	3
Total Credits	39	24

The demand for teaching in this field is limited. The required second endorsement (either a teaching major or a teaching minor) should be in a field in high demand.

Health and Human Performance

Grades K-12. Qualifies as a single-field endorsement.

For an endorsement in the extended major teaching field of Health and Human Performance, a student must complete the requirements for a B.S. in Health and Human Performance with an option in Health Enhancement (see the Department of Health and Human Performance section of this catalog and below). Individuals holding a baccalaureate degree must meet those requirements by completing the courses listed below or demonstrate course equivalency.

	Maj.
HHP 181 Foundations of Health and Human Performance	3
HHP 184 Personal Health and Wellness	3
HHP 224-225 Professional Activities	4
HHP 226 Basic Exercise Prescription	3
HHP 233 Health Issues of Children and Adolescents	3
NURT 221N (HHP 236) Nutrition	3
HHP 240-241 Prevention and Care of Athletic Injuries and Lab	3
HHP 288-289 First Responder Emergency Care and CPR Laboratory	0-3
HHP 301 Instructional Strategies in Secondary Physical Education (coreq. C&I 301 or 302)	3
HHP339 Instructional Strategies in Elementary Physical Education (coreq. C&I 301 or 302)	3
HHP 368-369 Applied Anatomy and Kinesiology and Laboratory	4
HHP 377 Physiology of Exercise	3
HHP 378 Physiology of Exercise Laboratory	1
HHP 384 Motor Control and Learning	3
HHP 465 Leading HHP Organizations	3
HHP 466 Strategies in K-12 Health Education	3
HHP 475E Legal and Ethical Issues in the Health and Exercise Professions	3
BIOM 250N (BIOL 106N) Microbiology for Health Sciences	3
BIOE 172N (BIOL 121N) Introductory Ecology or SCI 350 Environmental Perspectives	2-3
CHMY 121N (CHEM 151N) Intro to General Chemistry	3
COMM 111A Introduction to Public Speaking	3
STAT 216 (MATH 241) Intro to Statistics, PSYX 222 (PSYC 220) or HHP 486	3-4
PSYX 230S (PSYC 240S) Developmental Psychology	3
BIOH 201N-202N & BIOH 211N-212N (SCN 201N-202N) Anatomy and Physiology I and II and Lab	8
Total Credits	73-78

A Health and Human Performance major qualifies as a single-field endorsement. Although not required, it is recommended that students complete a second teaching major or minor.

History

Grades 5-12. Does not qualify as a single field endorsement.

For an endorsement in the major teaching field of History, a student must complete the requirements for the B.A. with a major in History (see the Department of History section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For an endorsement in the minor teaching field of History a student must complete the courses in the minor teaching field listed below or demonstrate course equivalency.

	Maj	Min.
HSTR 101H or 102H (HIST 104H or 105H) Western Civilization	4	4

HSTA 101H-102H (HIST 151H-152H) American History I & II	4	8
HSTR 200 Intro to Historical Methods	1	1
HSTA 255 (HIST 269) Montana History	3	3
HSTR (HIST) electives in Asian, Islamic, African, and Latin American	9	6
Upper-division courses in American history	6	3
Upper-division courses in European history	6	3
History electives upper-division courses in history	6	-
HSTA/HSTR 400-level approved writing course	3	-
EDU 497 (C&I 428) Methods: 5-12 Social Studies (coreq EDU 395 (C&I 301 or 302))	3	3
Total Credits	45	31

The demand for teaching in this field is limited. The required second endorsement (either a teaching major or a teaching minor) should be in a field in high demand.

Latin*

Grades K-12. Does not qualify as a single field endorsement.

For an endorsement in the major teaching field of Latin, a student must complete the requirements for the B.A. with a major in Classics, Latin option, as well as MCLG 410 (see Department of Modern and Classical Languages and Literatures section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For an endorsement in the minor teaching field of Latin, a student must complete the courses in the minor teaching field listed below or demonstrate course equivalency.

	Maj	Min.
LATN 101-102 (LAT 101-102) Elementary Latin or equivalent	10	10
LATN 201-202 (LAT 211-212) Intermediate Latin	7	7
LATN upper-division electives	15	6
LATN 402 (LAT 402) Advanced Prose Composition	3	3
CLAS 155L (MCLG 155L) Survey Greek & Roman Literature	3	-
CLAS 160L (MCLG 160L) Classical Mythology	3	-
CLAS 251L (MCLG 251L) The Epic or CLAS 252L (MCLG 252L) Greek Drama	3	-
ARTH 407 (ART 381) Roman and Early Christian Art	3	-
Nine credits from: HSTR 301, 302 (HIST 302H, 301H), 320, 360H, or 362; PHL 261, or 363 465, 466 (PHIL 251 or 362, 461, 463)	9	-
MCLG 410 Methods of Teaching Foreign Languages (coreq. EDU 395 (C&I 301 or 302))	3	3
HSTR 304H (HIST 303H) Ancient Rome	3	-
Total Credits	62	29

*The Department of Modern and Classical Languages and Literatures requires a recommendation of the student's language proficiency and an overall minimum grade point average of 3.00 for upper-division course work in both the teaching major and minor as a prerequisite to student teaching.

The demand for teaching in this field is limited. The required second endorsement (either a teaching major or minor) should be in a field in high demand.

Library Media

Grades K-12. Minor Only.

	Min.
EDU 331 (C&I 316) Lit & Literacy for Children	3
EDU 432 (C&I 470) Lit & Literacy for Young Adults	3
C&I 479 Reference Resources	3
C&I 480 Collection Development	3
C&I 483 Library Media Technical Processes	3
C&I 484 Administration and Assessment of Library Media Program	3
C&I 485 Library Media Practicum	3
C&I 488 Libraries and Technology	3
LIB 461 Information Literacy	3
Total Credits	27

A Library Media Practicum is separate from student teaching. It includes 90 hours of field work in a library and 10

hours of seminar. Equivalent courses from UM-Western may substitute for EDU 331, 432 (C&I 316, 470), C&I 479, and 485. C&I graduate courses also may substitute for EDU 331, 432 (C&I 316, 470), and C&I 479.

Mathematics

Grades 5-12. Qualifies as a single-field endorsement.

For an endorsement in the extended major teaching field of Mathematics, a student must complete the requirements for the B.A. degree with a major in Mathematics with a Mathematics Education option (see Department of Mathematical Sciences section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For an endorsement in the minor teaching field of Mathematics, a student must complete the courses in the minor teaching field listed below or demonstrate course equivalency.

	Maj	Min.
M 171-172 (MATH 152-153) Calculus I, II	8	8
M 221 (MATH 221) Linear Algebra	4	4
M 301 (MATH 301) Mathematics with Technology for Teachers	3	3
M 307 (MATH 305) Introduction to Abstract Mathematics	3	3
M 326 (MATH 326) Elementary Number Theory	3	3
STAT 341 (MATH 341) Introduction to Probability & Statistics	3	3
M 429 (MATH 406) History of Mathematics	3	-
M 431 (MATH 421) Abstract Algebra	4	-
M 439 (MATH 431) Euclidean & Non-Euclidean Geometry	3	3
M 273 (MATH 251) or additional 300-400-level course	3-4	-
EDU 497 (C&I 430) Methods: 5-12 Mathematics (coreq. EDU 395 (C&I 301 or 302))	4	4
Total Credits	41-42	31

A math major qualifies as a single-field endorsement if a student also completes 12 science credits. Although not required, a second teaching major or minor is recommended.

Music

Grades K-12. Qualifies as a single-field endorsement.

For an endorsement in the extended major teaching field of Music, a student must complete the requirements for a Bachelor of Music Education degree (see the Music section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

	Maj.
MUSI 102A (MUS 100A) Performance Study	2
MUSI 195-295-395 (MUS 151-251-351) Applied Study I, II, III	5
MUSI 112A/312-108A/308-155A/355-122A/123A, 162A, 267A, 322, 323, 362, 467, MUST 227, 467 (MUS 107A/307A-108A/308A-104A/304A-110A/310A -150A/350) Ensembles	7
MUSI 105-106 (MUS 111-112) Theory I, II	4
MUSI 135A-136A (MUS 115A-116A) Keyboard Skills I, II	2
MUSE 123 (MUS 117A) Techniques: Voice	1
MUSE 120, 121, 126, 127, 272, 273, 274, 275 (MUS 124-131) Techniques	8
MUSI 202L (MUS 135L) Introduction to Music Literature	3
MUSI 140-141 (MUS 137-138) Aural Perception I, II	4
MUSI 205-206 (MUS 211-212) Theory III, IV	4
MUSI 235-236 (MUS 215-216) Keyboard Skills III, IV	2
MUSI 296 (MUS 219) Piano Proficiency Assessment	0
MUSI 296 (MUS 220) Upper-Division Required Performance	0
MUSI 240-241 (MUS 237-238) Aural Perception III, IV	4
MUSI 335 (MUS 302) Instrumental Conducting	2
MUSI 336 (MUS 303) Choral Conducting	2
MUSE 497 (MUS 305) Methods: Instrumental & Lit	2
MUSE 497 (MUS 306) Methods: Choral & Lit	2
MUSI 301H-302H (MUS 324H-325H) History of Music I, II	6
MUSE 333-334 (MUS 322-323) General Music Methods and Materials I, II (coreq. EDU 395 (C&I 301 or 302))	6
MUSI 388 (MUS 388) Concert Attendance	0
MUSI 440 (MUS 428) Orchestration	2

Music upper-division electives	3-4
Total Credits	71-72

Music students should refer to the School of Music section of this catalog for requirements concerning upper-division music course work.

Physics

Grades 5-12. Does not qualify as a single field endorsement.

For an endorsement in the major teaching field of Physics, a student must complete the requirements for the B.A. with a major in Physics (see the Department of Physics and Astronomy section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For an endorsement in the minor teaching field of Physics, a student must complete the courses in the minor teaching field listed below or demonstrate course equivalency.

	Maj.	Min.
PHSX 205N-206N-207N-208N (PHYS 111N-113N-112N-114N) College of Physics I & II & Labs or PHSX 215N-216N-217N-218N (PHYS 211N-213-212N-214N) Fundamentals of Physics with Calculus I & II & Labs	10	10
PHSX 301 (PHYS 301) Intro Theoretical Physics	3	-
PHSX 327 (PHYS 325) Optics	3	3
PHSX 330 (PHYS 330) Communicating Physics	3	3
PHSX 343 (PHYS 341) Modern Physics	3	3
PHSX 320 (PHYS 375) Classical Mechanics	3	3
PHSX 423 (PHYS 414) Electricity & Magnetism I	3	-
PHSX 461 (PHYS 461) Quantum Mechanics I	3	-
PHSX 499 (PHYS 480) Senior Capstone Seminar	1	-
Electives-courses in physics	3	-
ASTR 131N-132N Elementary Astronomy (minors choose one)	6	3
M 171-172 (MATH 152-153) Calculus I and II	8	8
STAT 216 (MATH 241) introduction to Statistics or STAT 341 (MATH 341) Introduction to Probability and Statistics	3-4	3-4
M 273 (MATH 251) Multivariate Calculus	4	4
M 311 (MATH 311) Ordinary Differential Equations	3	3
CSCI 100 (CS 101) Intro to Programming or CSCI 135 (CS 131) Fundamentals of Computer Science I	3	3
EDU 497 (C&I 426) Methods: Science 5-12	3	3
CHMY 121N (CHEM 151N) Intro to General Chemistry	3	3
CHMY 485 (CHEM 485) Laboratory Safety	1	1
BIOB 160N (BIOL 110N) Principles of Living Systems or BIOB 170N (BIOL 108N) Principles Biological Diversity or BIOO 105N (BIOL 120N) Introduction to Botany or BIOE 172N (BIOL 121N) Introductory Ecology	4/3	4/3
GEO 101N-102N (GEOS 100N-101N) Intro to Physical Geology & Laboratory	4	-
GEO 105N (GEOS 105N) Oceanography or GEO 108N (GEOS 108N) (Climate Change or ENSC 105N (EVST 101N) Environ Sci or SCI 350 Environ Perspect	2-3	-
Total Credits	78-81	59-61

The demand for teaching in this field is limited. The required second endorsement (either a teaching major or a teaching minor) should be in a field in high demand.

Psychology

Grades 5-12. Does not qualify as a single field endorsement.

For an endorsement in the major teaching field of Psychology, a student must complete the requirements for the B.A. degree with a major in Psychology, General option (see the Department of Psychology section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For an endorsement in the minor teaching field of Psychology, a student must complete the courses in the minor teaching field listed below or demonstrate course equivalency.

Maj. Min.

PSYX 100S (PSYC 100S) Introduction to Psychology	4	4
PSYX 120 (PSYC 120) Introduction to Psychological Research	3	3
PSYX 222 (PSYC 220) Psychological Statistics	3	-
At least two of the following for the major:		
PSYX 270S (PSYC 260S) Fundamental Psychology of Learning		
PSYX 280S (PSYC 265S) Fund of Memory & Cognition		
PSYX 250N (PSYC 270N) Fundamentals of Biological Psychology	6	-
At least four of the following for the major:		
PSYX 230S (PSYC 240S) Developmental Psychology		
PSYX 233 (PSYC 245) Fund of Psychology of Aging		
PSYX 340S (PSYC 330S) Abnormal Psychology		
PSYX 360S (PSYC 350S) Social Psychology		
PSYX 385S (PSYC 351S) Psychology of Personality	12	-
At least one of the following for the minor:		
PSYX 230S (PSYC 240S) Developmental Psychology		
PSYX 360S (PSYC 350S) Social Psychology		
PSYX 385S (PSYC 351S) Psychology of Personality	-	3
At least one of the following for the major:		
M 115 (MATH 117) Probability, Linear Mathematics or M 121 (MATH 111) College Algebra		
M 162 (MATH 150) Applied Calculus		
M 171 (Math 152) Calculus I	3-4	-
At least one of the following for the minor:		
PSYX 378S (PSYC 335S) Introduction to Clinical Psychology		
PSYX 340S (PSYC 330S) Abnormal Psychology		
PSYX 345 (PSYC 336) Child and Adolescent Psychological Disorders		
PSYX 376 (PSYC 337) Principles of Cognitive Behavior Modification	-	3
Four other psychology courses (at least three of which must be at the 200-level or higher), not to include PSYX 292, 392, 398, 494, or 499 (PSYC 296, 396, 398, 398, 493 or 499)	12	-
Two of the following for the minor:		
PSYX 270S (PSYC 260S) Fundamental Psychology of Learning		
PSYX 280S (PSYC 265S) Fundamentals of Memory & Cognition		
PSYX 250N (PSYC 270N) Fundamentals of Biological Psychology		
PSYX 356 (PSYC 371) Fundamentals of Human Neuropsychology		
PSYX 352 (PSYC 372) Intermediate Behavioral Biology	-	6
Additional PSYX elective credits for the minor	-	3
EDU 497 (C&I 428) Methods: 5-12 Social Studies (coreq. C&I 301 or 302)	3	3
Total Credits	46-47	25

At least six of the 22 PSYX credits for the minor must be at the 300-level or above.

The demand for teaching in this field is limited. The required second endorsement (either a teaching major or a teaching minor) should be in a field in high demand.

Reading

Grades K-12. Minor only.

	Min.
EDU 331 (C&I 316) Lit & Literacy for Children	3
EDU 432 (C&I 470) Lit & Literacy for Young Adults	3
EDU 397 (C&I 318) Methods: PK-8 Language Arts	3
EDU 497 (C&I 405) Methods: PK-8 Reading	3
EDU 481 (C&I 427) Content Area Literacy	3
EDU 438 (C&I 433) Literacy Asmnt, Diagnosis & Instr	3
EDU 441 (C&I 435) Organizing Reading and Writing Programs	3
EDU 456 (C&I 437) Application of Literacy Models K12	6
Total Credits	27

Russian*

Grades K-12. Does not qualify as a single field endorsement.

For an endorsement in the major teaching field of Russian, a student must complete the requirements for the B.A. with a major in Russian including MCLG 410 (see the Department of Modern and Classical Languages and Literatures section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For an endorsement in the minor teaching field of Russian, a student must complete the courses in the minor teaching field listed below or demonstrate course equivalency.

	Maj.	Min.
RUSS 101-102 Elementary Russian	10	10
RUSS 201-202 Intermediate Russian	8	8
RUSS/MCLG 105HY Intro Russian Culture	3	-
RUSS 301 Oral and Written Expression I	3	3
RUSS 302 Oral and Written Expression II	3	3
RUSS - two of 308, 312L, 313L (minors must take RUSS 312L)	6	3
RUSS upper-division electives	12	-
RUSS 494 Seminar in Russian	3	-
HSTR – a course in Russian history	3	-
MCLG 410 Methods of Teaching Foreign Languages (coreq. EDU 395 (C&I 301 or 302))	3	3
Total Credits	54	30

*The Department of Modern and Classical Languages and Literatures requires a recommendation of the student's language proficiency and an overall minimum grade point average of 3.00 in upper-division course work in both the teaching major and minor as a prerequisite to student teaching.

The demand for teaching in the field is limited. The required second endorsement (either a teaching major or a teaching minor) should be in a field in high demand.

Social Science Broadfield

Grades 5-12. Qualifies as a single-field endorsement.

Students who want to be licensed to teach history, government, and one additional social science at the middle and high school level must complete the B.A. degree requirements for the combined academic major in history and political science, shown below. Individuals holding a baccalaureate degree must show evidence of completing the courses listed below or demonstrate course equivalency.

	Maj.
HSTR 101H or HSTR 102H (HIST 104H or 105H) Western Civilization	4
HSTA 101H-102H (HIST 151H-152H) American History I & II	8
HSTR 200 Intro to Historical Methods	1
HSTA 255 (HIST 269) Montana History	3
HSTR (HIST) elective in Asian, Islamic, African, or Latin American	3
HSTA (HIST) upper-division American history	3
HSTR (HIST) upper-division European history	3
HSTR or HSTA (HIST) upper-division elective	3
HSTA/HSTR 400-level approved writing course	3
PSCI 210S (PSC 100S) Intro to American Government	3
PSCI 220S (PSC 120S) Intro to Comparative Government	3
PSCI 230X (PSC 130E) Intro to International Relations	3
PSCI 250E (PSC 150E) Intro to Political Theory	3
PSCI (PSC) upper-division American government and politics	9
PSCI (PSC) Upper-division comparative government and/or international relations	9
Credits in one of the following fields: economics, geography, psychology, or sociology	9
EDU 497 (C&I 428) Methods: 5-12 Social Studies (coreq. EDU 395 (C&I 301 or 302))	3
Total Credits	73

Sociology

Grades 5-12. Does not qualify as a single field endorsement.

For an endorsement in the major teaching field of Sociology, a student must complete the requirements for the B.A. with a major in Sociology (see the Department of Sociology section of this catalog and below.). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For an endorsement in the minor teaching field of Sociology, a student must complete the courses in the minor teaching field listed below or demonstrate course equivalency.

	Maj.	Min.
SOCI 101S (SOC 110S) Introduction to Sociology	3	3
SOCI 202 (SOC 202) Social Statistics	3	-
SOCI 318 (SOC 201) Sociological Research Methods	3	3
SOCI 455 (SOC 455) Classical Social Theory	3	3
Four of the following, two must be numbered 300 or above:	12	-
SOCI 211S (SOC 230S) Criminology or 330S Juvenile Delinquency		
SOCI 220S (SOC 220S) Race, Gender and Class		
SOCI 270 (SOC 270) Introduction to Development Sociology		
SOCI 275S (SOC 275S) Gender and Society		
SOCI 306 (SOC 306S) Sociology of Work		
SOCI 308 (SOC 308) Sociology of Education		
SOCI 325 (SOC 325) Social Stratification		
SOCI 332 (SOC 300) Sociology of the Family		
SOCI 342 Urban/Metropolitan Sociology		
SOCI 345 (SOC 320) Sociology of Organizations		
SOCI 346 Rural Sociology		
SOCI 350 (SOC 340) The Community		
SOCI 355 (SOC 355S) Population & Society		
SOCI 382 (SOC 350S) Social Psychology & Social Structure		
SOCI 470 Environmental Sociology		
SOCI 485 (SOC 485) Political Sociology		
Sociology electives (minors must take at least six credits numbered 300 or above)	9	12
EDU 497 (C&I 428) Methods: 5-12 Social Studies (coreq. C&I 301 or 302)	3	3
Total Credits	36	24

The demand for teaching in this field is limited. The required second endorsement (either a teaching major or teaching minor) should be in a field in high demand.

Spanish*

Grades K-12. Qualifies for single-field endorsement.

For endorsement in the extended major teaching field of Spanish, a student must complete the requirements for the B.A. with a major in Spanish including SPNS 301, 305, 400, 408 (SPAN 301, 302, 405, 408) and MCLG 410 (see the Department of Modern and Classical Languages and Literatures section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

For endorsement in the minor teaching field of Spanish, a student must complete the courses in the minor teaching field listed below or demonstrate course equivalency.

	Maj.	Min.
SPNS 101-102 (SPAN 101-102) Elementary Spanish	10	10
SPNS 201-202 (SPAN 201-202) Intermediate Spanish	8	8
SPNS 301 (SPAN 301) Oral and Written Expression	3	3
SPNS 305 (SPAN 302) Spanish Phonetics	3	3
SPNS 326LX331X (SPAN 311L/312L) Contemporary Literature (minors take one)	6	3
SPNS 400 (SPAN 405) Spanish: Applied Linguistics	3	3
SPNS 408 (SPAN 408) Advanced Composition and Conversation	3	-
SPNS (SPAN) two literature courses at 400-level	6	-
SPNS upper-division electives	6	-
LING 270S Introduction to Linguistics or LING 470	3	3
MCLG 315 Major Hispanic Authors	3	-
MCLG 410 Methods of Teaching Foreign Languages (coreq. EDU 395 (C&I 301 or 302))	3	3
Total Credits	57	36

*The Department of Modern and Classical Languages and Literatures requires a recommendation of the student's language proficiency and an overall minimum grade point average of 3.00 in upper division course work in both the teaching major and minor as a prerequisite to student teaching. Study in a Spanish language country, provided either through UM's Study Abroad Program or an experience considered to be equivalent, also is required.

A Spanish major qualifies as a single-field endorsement. Although not required, it is recommended that students complete a second teaching major or minor.

Special Education

Grades P-12. Minor only.

	Min.
C&I 420 Assessment & Curriculum In Early Childhood Special Education OR elective*	2-3
EDU 438 (C&I 433) Literacy Asmnt, Disagnosis & Instr (coreq. EDU 397 or 481 (C&I 318 or 427))	3
C&I 453 Introduction to Special Education Law & Policy	3
C&I 457 Assessment and Instruction for Exceptional Learners	5
C&I 459 Consulting/Resource Teacher (prereq. C&I 453)	3
C&I 463 Advanced Classroom Management for Exceptional Learners/Practicum (prereq. C&I 453)	3
C&I 469 Student Teaching: Special Education	10
Total Credits	29-30

*Required course for early childhood education; counts as elective credit. Other elective courses must be approved by a special education advisor.

Theatre

Grades 5-12. Does not qualify as a single field endorsement.

For an endorsement in the major teaching field of Theatre, a student must complete the requirements for the B.A. with a major in Theatre, Education Endorsement Preparation specialization (see the School of Theatre & Dance section of this catalog and below). Individuals holding a baccalaureate degree must meet these requirements by completing the courses listed below or demonstrate course equivalency.

	Maj.
DANC 346 (DAN 327) Methods: Dance in K-8	2
THTR 102A (DRAM 103A) Introduction to Theatre Design	3
THTR 103 (DRAM 108) Introduction to House Management	1
THTR 106A (DRAM 106A) Theatre Production I: Running Crew	1
THTR 107A (DRAM 107A) Theatre Production I: Construction Crew	3
THTR 202 (DRAM 202) Stagecraft I: Lighting/Costumes	3
THTR 203 (DRAM 203) Stagecraft II: Scenery/Props	3
THTR 210 (DRAM 210) Voice and Speech I	2
THTR 220-221 (DRAM 214-215) Acting I, II	6
THTR 235L (DRAM 220L) Dramatic Literature I	3
THTR 249 (DRAM 244) Stage Makeup	2
THTR 330H-331H (DRAM 320H-321H) Theatre History I, II	6
THTR 339 (DRAM 327) Drama in Elementary Education	2
THTR 370 (DRAM 371) Stage Management I	2
THTR 375 (DRAM 379) Directing I	3
THTR 439 (DRAM 402) Methods of Teaching Theatre	2
THTR 499 (DRAM 499) Senior Project	1
Total Credits	45

The demand for teaching in this field is limited. The required second endorsement (either a teaching major or teaching minor) should be in a field in high demand.

Courses

U = for undergraduate credit only, UG = for undergraduate or graduate credit, G = for graduate credit. R after the credit indicates the course may be repeated for credit to the maximum indicated after the R. Credits beyond this maximum do not count toward a degree.

Curriculum and Instruction (C&I)

U 160 Learning Strategies for Higher Education 2 cr. Offered every term. Instruction and application of college study skills including lecture note taking, time management, reading textbooks, test taking, and critical thinking. Elective credit only.

U 287 Business Communications 3 cr. Offered every term. Prereq., WRIT 101 (ENEX 101) College Writing I. Emphasis on consistent and logical approaches to solving communication problems and creating successful communication products.

U 295 Special Topics Variable cr. (R-6) Offered intermittently. Offerings of visiting professors, new courses, or current topics.

U 296 Independent Study Variable cr. (R-6) Offered every term. Prereq., consent of advisor and instr.

U 298 Internship Variable cr. (R-6) Offered intermittently. Prereq., consent of advisor, instructor, and director of field experiences. A maximum of 6 credits of Internship (198, 298, 398, 498) may count toward graduation.

U 330 Early Childhood Education 3 cr. Offered spring odd-numbered years. Theory and techniques of teaching in pre-school and primary levels of education. Observation and participation in pre-school programs. Recommended for kindergarten and primary teachers.

U 341 Information Management and Design 3 cr. Offered spring. Prereq., CSCI 172 (CS 172). Emphasis on the development and maintenance of a file management system, application of effective design concepts in the creation of professional print and digital images and documents, and the creation of digital videos for use in education and/or business.

U 355 Child in the Family 3 cr. Offered spring even-numbered years. Prereq., PSYX 100S (PSYC 100S). Physical, social, emotional and intellectual development, learning theories and child rearing practices related to children 0-6 years of age.

U 367 Pre-School Practicum Laboratory 3 cr. Offered autumn and spring. Practicum experiences including observational assessment of children, study of the planning process, team teaching of a one-week unit plan, and planning and directing parent/teacher conferences. Students will complete selected readings and assignments on child development, early childhood ecological arrangements, and classroom management. Weekly seminars include early childhood pedagogy, adapted and regular physical education. Must attend mandatory meeting at 12:00 or 4:00 p.m. on first day of the semester.

U 394 Seminar Variable cr. (R-9) Offered intermittently. Group analysis of problems in specific areas of education.

U 395 Special Topics Variable cr. (R-9) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

UG 420 Curriculum and Methods in Early Childhood Special Education 3 cr. Offered autumn even-numbered years. Principles in selecting and adapting early childhood curriculum materials for young children with disabilities; development, implementation and evaluation of individualized education programs; and appropriate teaching strategies for the early childhood special education classroom. Includes 45 practicum hours in campus-based CO-TEACH Preschool.

UG 421 Issues in Early Intervention 3 cr. Offered autumn odd-numbered years. Issues involved when serving young children with disabilities; family and child advocacy; least restrictive placements in early childhood settings; transitions concerning families, special education service providers and receiving schools; case management in rural communities; transdisciplinary teaming process; and preschool individualized education programs. Includes practicum hours in campus-based CO-TEACH preschool.

UG 452 Measurement and Observation 3 cr. Offered autumn and even summers. Focus on a variety of assessment procedures for students who qualify for Special Education services. A variety of assessments and assessment techniques will be taught, with a strong emphasis on the use of ecologically valid assessment tools. Specific measurement skills will be taught including observation skills. Field experience is required.

UG 453 Introduction to Special Education Law and Policy 3 cr. Offered autumn and even-numbered summers. Historic and current perspectives on laws, policies and practices of the special education and related fields. Coverage of all aspects of the special education process including collaborative practices.

UG 457 Assessment and Instruction for Exceptional Learners 5 cr. Offered autumn and even-numbered

summers. Prereq. or coreq., C&I 453, admission to special education program. Understanding and using assessment information for educational decision making. Instructional models and strategies used in teaching students with learning and behavior problems. Includes field experience.

UG 458 Effective Academic Intervention 3 cr. Offered autumn and even summers. Evidence-based assessment and instruction techniques in all basic academic areas. Particular focus on general outcome and curriculum-based measures and the alignment of these assessments to interventions. A field experience is required.

UG 463 Advanced Positive Behavioral Supports 3 cr. Offered spring and odd-numbered summers. In-depth study of the principles and procedures for managing problem behaviors with an emphasis on prevention and classroom management. A field experience is required.

UG 469 Student Teaching in Special Education Variable cr. (R-10) Offered autumn and spring. Prereq., completion of all courses in the special education minor and consent of instr. and Director of Field Experiences. Supervised field experience in special education.

UG 479 Reference Resources 3 cr. Offered intermittently. Evaluation, selection, and use of basic reference resources. Teaching of media skills, information negotiation, search strategies, database use, and information services.

UG 480 Collection Development 3 cr. Offered autumn. Focus on building and maintaining a foundation print and non-print media collection; devising a selection policy; demonstrating media use in support of the curriculum; and compiling annotated bibliographies.

UG 483 Library Media Technical Processes 3 cr. Offered spring. Coreq., C&I 488. Focus on the technical processing and organization of print and non-print materials utilizing descriptive cataloging, application of AACR2 and the Dewey Decimal System, Library of Congress subject headings, and MARC21 records.

UG 484 Administration and Assessment of the Library-Media Program 3 cr. Offered spring. Administrative and management procedures; assessment in terms of state, regional, and national guidelines for library media programs and services.

UG 485 Authentic Assessment in Library Media 3 cr. Offered summer. Prereq., 19 credits in library Media and consent of instr. Supervised field experience in selected phases of library media center operations, including assessment.

U 498 Internship Variable cr. Offered intermittently. Prereq., consent of chair. Extended classroom experience which provides practical application of classroom learning during placements off campus. Prior approval must be obtained from the faculty supervisor and the Internship Services office. A maximum of 6 credits of Internship (198, 298, 398, 498) may count toward graduation.

G 501 Curriculum Design, Implementation, and Evaluation 3 cr. Offered spring even-numbered years; offered summer. Underlying principles of design, factors affecting implementation, and evaluation and assessment of K-12 curricula at the student and program levels.

G 502 Philosophy of Education 3 cr. Offered spring and summer odd-numbered years. Same as EDLD 502. Major philosophical schools of thought and leading proponents of each. Concepts of society, the educative process, and the role of education.

G 504 History of American Education 3 cr. Offered spring and summer odd-numbered years. Same as EDLD 504. Exploration of the ideas, individuals, and events that have influenced the curriculum, pedagogy, and operation of the American public school, from colonial America to the present time.

G 506 Comparative Education 3 cr. Offered spring even-numbered years. How the American educational system compares with those in selected other countries.

- G 508 Sociology of Education 3 cr.** Offered autumn even-numbered years. Modern public education as it affects and is affected by religious, economic, and political systems and other social institutions.
- G 510 Advanced Educational Psychology 3 cr.** Offered autumn odd-numbered years and summer even-numbered years. The exploration of theoretical and empirical issues in psychology (e.g., learning theory and intelligence).
- G 514 Education Across Cultures 3 cr.** Offered autumn and spring odd-numbered years; offered every summer. Educational foundations of the study of diversity in American schools.
- G 515 Computer and Other Technological Applications in Education 3 cr.** Offered summer; offered spring even-numbered years. Prereq., a basic computer course or demonstrated computer literacy. Computer systems and other hardware utilizing various software applications by administrators, counselors, librarians, teachers, and students.
- G 518 Inclusion and Collaboration 3 cr.** Offered autumn even-numbered years; offered summer. Legal and ethical issues involved in the responsible inclusion of all individuals with disabilities through multi-disciplinary and collaborative efforts.
- G 519 Authentic Assessment 3 cr.** Offered online spring odd-numbered years. Focus on assessment practices in K-12 classrooms including a wide variety of assessments that meet curricular objectives as well as nationally required standardized exams to meet NCLB mandates.
- G 520 Educational Research 3 cr.** Offered every term. Same as EDLD/HHP 520. An understanding of basic quantitative and qualitative research methodology and terminology, particularly as they are used in studies presented in the professional literature.
- G 521 Foundations in Environmental Education 3 cr.** Offered autumn. Prereq., graduate standing in environmental studies. Same as ENST 521 (EVST 521). Problem-solving approach to environmental education; problem identification, research and design and implementation of an educational approach to selected environmental issues.
- G 522 Applied Research Methods 3 cr.** Prereq., C&I 520. Assists students in acquiring the skills and knowledge required to be competent producers of research related to the field of special education. Students are expected to be prepared to review research methods and conduct a research project.
- G 523 Advance Methods in Early Childhood Special Education 3 cr.** Offered spring and odd summers. Focuses on the relationship between assessment and individualized educational planning young children who qualify for Special Education services. A variety of assessments and assessment techniques will be taught, with a strong emphasis on the use of ecologically valid assessment tools. Emphasis on instructional techniques for young children will be covered with particular attention to the DEC recommended practices. A field experience is required.
- G 524 Family and Diversity Issues for Exceptional Learners 3 cr.** An overview of different approaches, current issues, and problems involved in working with and supporting families including families from diverse backgrounds. Emphasis is placed on how a child with disabilities affects and is affected by parents, siblings, the extended family, and the community. Strategies for effective communication for the purpose of information sharing and collaborative planning with families are provided.
- G 525 Teaching Environmental Science 1-3 cr.** (R-6) Offered spring even-numbered years. Prereq., consent of instr. Same as ENST 525 (EVST 525). Identification and examination of potential solutions to environmental problems and their impact on society. Major emphasis on teaching methods as they apply to environmental science.
- G 526 Transition and Community Supports 3 cr.** Focus on issues and strategies for preparing adolescents and young adults with disabilities for the transition from school to future careers. These issues are discussed within the context of more global efforts to create school-to-career programs in school settings for all students.
- G 527 Advanced Literacy Strategies in Content Areas 3 cr.** Offered autumn; offered summer even-numbered

years. Prereq., teaching experience. Advanced theories, models, instructional approaches for using reading/writing for learning in content fields. Emphasis on research, instructional practice, classroom assessment.

G 530 Socio-Cultural Foundations of Literacy 3 cr. Offered summer odd-numbered years. Survey of history and research related to literacy practices in schools/communities. Theories, models, politics of literacy in K-12/Adult education.

G 533 Advanced Diagnosis and Correction of Reading and Writing 3 cr. Offered summer even-numbered years. Based on the case study approach, emphasis on diagnosing and devising instructional strategies for students with reading/writing strengths and needs.

G 540 Supervision and Teaching Language Arts 3 cr. Offered summer even-numbered years. Prereq., teaching experience. Advanced theories and instructional approaches for teaching and assessing the facets of communication within an integrated elementary curriculum.

G 541 Supervision and Teaching of Children's Literature and Critical Reading 3 cr. Offered summer even-numbered years. Prereq., undergraduate course in children's literature. Literature-based study involving extensive critical reading and integrated curricular use of high quality nonfiction and classical, contemporary, and multi-cultural fiction, addressed to grades 1 through 8.

G 542 Supervision and Teaching of Mathematics 3 cr. Offered spring even-numbered years and summer odd-numbered years. Curriculum trends, instructional materials, research and supervisory techniques relevant to a modern school mathematics program.

G 543 Supervision and Teaching of Reading 3 cr. Offered summer odd-numbered years. Survey of theory and research related to developing and supervising reading instruction programs.

G 544 Supervision and Teaching of Science 3 cr. Offered intermittently. Prereq., SCI 225, 226 or equiv., teaching experience. Designing curricula based on the structure of knowledge, and analyzing existing science programs.

G 545 Social Studies Education 3 cr. Offered summer even-numbered years. Historical trends and curriculum issues related to social studies instruction. Emphasis on current research concerning social studies curriculum design, instructional practices, and use of resources.

G 546 Supervision and Teaching of Young Adult Literature and Critical Reading 3 cr. Offered intermittently. Extensive reading among classical, contemporary, and multicultural literature including novels, poetry, short stories, and drama; selection of high quality works, evaluation, and curricular utilization in grades 8 through 12.

G 548 Supervision and Teaching in Environmental Education 3 cr. Offered spring. Prereq., ENST 521 (EVST 521) or C&I 521. Design, selection, and evaluation of materials for the teaching of environmental education.

G 552 Models of Professional Development in Mathematics and Science 3 cr. Offered spring even years on-line. Exploration of various models of professional development and the development of implementation plans for workshops and in-service professional development in science and mathematics.

G 553 Information Searching, Retrieval and the Curriculum 3 cr. Offered summer even-numbered years.. Search strategy, informed selection, and curricular utilization of general and subject reference and information sources; integration of research and media skills into the K-12 curriculum.

G 555 Workshop Variable cr. (R-6) Offered intermittently. Special courses experimental in nature dealing with a relatively narrow, specialized topic of particular current interest. Credit not allowed toward a graduate degree.

G 556 Advanced Methods in Low Incidence Disabilities 3 cr. Offered spring and odd summers. Focus on research-based methods of instruction for students with low incidence disabilities in basic communication, mobility, sensory, and social skills, as well as academic skills (especially literacy and general education curricular access). An

introduction to augmentative and alternative communication and life quality today and in the future. An introduction to augmentative and alternative communication (AAC) and assistive technology (AT) is also addressed. A field experience is required.

G 557 Advanced Application of Literacy Models 6 cr. Offered intermittently in summer. Prereq., C&I 433 or 533. Based on readers' literacy strengths and needs, practitioners diagnose, devise, and implement instructional strategies for students in grades K-12.

G 560 School-wide Assessment and Instruction: Response to Intervention 3 cr. Prereq., C&I 458. Offered spring and odd summers. Review of evidence-based assessment and instruction techniques in all basic academic areas. Advanced application of general outcome and curriculum-based measures and alignment of these assessments to interventions. Preparation in service as a leader for the implementation of school-wide prevention models. A practicum is required.

G 570 Instructional Technology Foundations 3 cr. Offered autumn even-numbered years. Same as EDLD 570. General introduction to the field, theory, and profession of instructional technology. Definition of instructional technology; history of the field.

G 571 Planning, Preparing, and Assessing Educational Technology Media 3 cr. Offered spring odd-numbered years. Same as EDLD 571. Principles and practices of instructional design for integration of educational technology. Emphasis on role of technology in contemporary teaching/learning/assessing theory and practice, including learning styles and multiple intelligences.

G 580 Distance Learning Theory and Implementation 3 cr. Offered summer odd-numbered years. Same as EDLD 580. Introduction to distance learning models and exploration of satellite and computer-mediated course development, implementation, and evaluation.

G 581 Planning and Management for Technology in Education 3 cr. Offered autumn odd-numbered years. Same as EDLD 581. Creating, implementing, maintaining, and evaluating technology plans for educational institutions, including budgets, facilities, and hardware planning.

G 582 Educational Technology: Trends and Issues 3 cr. Offered spring even-numbered years. Same as EDLD 582. Exploration of trends and issues in the use of educational technology in a variety of settings.

G 583 Strategic Planning for Technology 3 cr. Offered every term even-numbered years. Same as EDLD 583. Leadership and strategic planning processes for technology integration within schools.

G 584 Authentic Application in Instructional Design for Technology 3 cr. Offered summer even-numbered years. Same as EDLD 584. Development of practical competencies in such components of instructional technology as development, production, materials evaluation, and project management and implementation.

G 585 Unit Course in Business and Information Technology Education Variable cr. (R-6) Offered summer odd-numbered years. Each unit course will carry a special title designating topic covered that is related to improvement of instruction.

G 588 Action Research in the Classroom 3 cr. Offered autumn. Readings in research in teaching/learning. Strategies to implement all components of an action research project in a classroom including planning/research design, action, reflection, and sharing.

G 589 Professional Project 3 cr. Offered summers. Culminating course in online master's program. Students demonstrate connections across content areas through a mini-thesis, research-based product that is shared with other professionals through a publication and/or presentation at a conference or workshop.

G 590 Supervised Internship 1-9 cr. (R-9) Offered autumn and spring.

G 594 Seminar Variable cr. (R-9) Offered autumn and spring. Prereq., consent of instr.

G 595 Special Topics Variable cr. (R-9) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

G 596 Independent Study Variable cr. (R-6) Offered autumn and spring. Prereq., consent of instr.

G 597 Research Variable cr. (R-9) Offered every term. Prereq., consent of instr.

G 598 Internship Variable cr. (R-9) Offered every term. Prereq., consent of instr. Supervised field experience.

G 618 Educational Statistics 3 cr. Offered spring. Prereq., EDU 421 (C&I 486) or equiv., or consent of instr. Same as EDLD 618. Advanced statistical methods and use of the mainframe computer and microcomputer for data analysis. Use of a recognized statistical package (e.g., SPSS-X) for research applications.

G 620 Qualitative Research 3 cr. Offered autumn. Prereq., C&I 520 or 618, or equiv. Same as EDLD 620. In-depth review of descriptive, experimental, historiographic, ethnographic, and other qualitative research methods, designs, and approaches. Includes the development of a research proposal.

G 625 Quantitative Research 3 cr. Offered spring. Prereq., C&I 520 and 486 or equiv. and coreq., C&I 618. Same as EDLD 625. Principles and techniques of quantitative research in educational settings. Students prepare a draft of a research proposal and experience an abbreviated dissertation proposal defense.

G 630 Special Topics in Literacy 1-3 cr. (R-3) Offered every term. Prereq., consent of instr. Should be taken in conjunction with or immediately prior to comprehensive examinations. In-depth coverage of selected topics in reading and writing related to current literacy issues and practices.

G 652 Issues in Curriculum and Instruction 3 cr. Offered autumn odd-numbered years. Prereq., C&I 501 or consent of instr. Curricular and instructional decision making and process, innovation and change, trends and reforms. Controversial issues in education and society related to K-12 curriculum and motivation.

G 694 Advanced Seminar in Curriculum and Instruction Variable cr. (R-9) Offered intermittently. Prereq., consent of instr.

G 697 Advanced Research in Curriculum and Instruction Variable cr. (R-9) Offered intermittently. Prereq., consent of instr.

G 699 Thesis/Dissertation Variable cr. (R-10) Offered every term.

Education (EDU)

U 162 NCAA Student-Athlete Experience 2 cr. Offered autumn. This course is designed to assist students in the development of necessary skills to be a successful college student-athlete. Topics will include a wide variety of areas including study skills, an introduction to campus resources, and personal and career development. Students will identify and discuss specific issues that pertain to them as student-athletes.

U 202 (C&I 200) Early Field Experiences 1 cr. Offered autumn and spring. Prereq., admission to Teacher Education Program or GPA of 2.75 and consent of Field Experiences Director. Guided introductory field experience for students committed to teaching as a profession. Connects field experience to content of co-requisite theory classes. Seminars include professional development portfolio, developmental level of students, diversity, learning/teaching strategies, motivation, classroom management, and assessment of learning.

U 221 (C&I 303) Educational Psychology and Measurements 3 cr. Offered every term. Prereq., admission to Teacher Education program; prereq. or coreq., C&I 200. Analysis of fundamental psychological concepts underlying classroom teaching and management, learning and evaluation including educational measurement. Emphasis on cognition, developmental, and motivational aspects of learning.

U 331 (C&I 316) Lit & Literacy for Children 3 cr. Offered autumn and spring. Prereq., EDU 221 (C&I 303); coreq., EDU 395 and 397 (C&I 300 and 318). Genre survey, including cross-cultural literature, that focuses on responding to children's literature through reading, writing, listening, speaking, and activities that emphasize selecting literature, teaching critical thinking, and integrating literature into the elementary curriculum.

U 345 (C&I 410) Exceptionality and Classroom Management 3 cr. Offered every term. Prereq., admission to Teacher Education Program. Prereq. or coreq., EDU 202 (C&I 200). Focus on classroom management and the characteristics and instructional adaptations for exceptional students in the regular classroom. Addresses the Individuals with Disabilities Education Act and subsequent reauthorizations, presents practices for working with students who are at-risk and students with disabilities in inclusive settings, and includes technological considerations.

U 370 (C&I 306) Integ Tech into Educ 3 cr. Offered every term. Prereq., admission to the Teacher Education Program and general computer literacy skills; prereq. or coreq., EDU 202 (C&I 200). Integration and use of computer and other technologies in education.

U 392 (C&I 396) Independent Study Variable cr. (R-9) Offered autumn and spring. Prereq., consent of instr.

U 395 (C&I 300) Field Experience: Elementary Language Arts 1 cr. (R-4) Offered autumn and spring. Prereq., EDU 202 (C&I 200) coreq., EDU 331 and 397 (C&I 316 and 318). Arranged field experience with 10 hours in a PK setting and 20 hours in either a K-6 or a K-8 school setting.

U 395 (C&I 301) Field Experience: K-8 1 cr (R-4) Offered autumn and spring. Prereq., EDU 202 (C&I 200); coreq., a secondary methods course. Arranged field experience in an elementary or middle school classroom, grades 4-8. For secondary licensure candidates whose EDU 202 (C&I 200) experience was in a high school classroom.

U 395 (C&I 302) Field Experience: 9-12 1 cr (R-4) Offered autumn and spring. Prereq., EDU 202 (C&I 200); coreq., a secondary methods course. Arranged field experience in a high school classroom for secondary licensure candidates whose EDU 202 (C&I 200) experience was in a middle school classroom.

U 397 (C&I 318) Methods: PK-8 Lang Arts 3 cr. Offered autumn and spring. Prereq., EDU 221 (C&I 303); coreq., EDU 395, 331 (C&I 300, C&I 316). Language development and primary and secondary language acquisition and emergent literacy; theory and application of teaching listening, speaking, writing and viewing in a PK-8 setting.

UG 407E (C&I 407E) Ethics and Policy Issues 3 cr. Offered every term. Prereq., admission to Teacher Education Program and EDU 202 (C&I 200). Practical application of ethical principles of the teaching profession. Analysis of the American public school and major policy issues from historical, legal, political, social as well as ethical perspectives.

UG 411 Implementing IEFA in the K-12 Classroom 3 cr. Offered intermittently. This course is designed to equip educators with the essential skills, knowledge, and cultural awareness to implement Indian Education for All (IEFA) in the k-12 classroom and to assume a leadership role in IEFA programming.

UG 421 (C&I 486) Statistical Procedures in Education 3 cr. Offered autumn of even years. Prereq., M 115 (MATH 117) or equiv. or consent of instr. Same as HHP 486. Concepts and procedures characterizing both descriptive and inferential statistics. Awareness of common statistical errors.

UG 432 (C&I 470) Lit & Literacy for Young Adults 3 cr. Offered intermittently. Genre surveys; extensive reading, and analyzing of literature, authors and media addressed to students ages 12-18. Emphasizes effective teaching strategies for using high quality literature with middle school and secondary students. Not a substitute for EDU 331 (C&I 316).

UG 438 (C&I 433) Basic Diagnosis and Correction of Reading and Writing 3 cr. Offered autumn and spring. Prereq., EDU 397 or 481 (C&I 318 or 427) for education students. Based on the analytic process, emphasis on assessing, identifying, and devising instructional strategies to meet students' reading/writing strengths and needs.

UG 441 (C&I 435) Organizing Reading and Writing Programs 3 cr. Offered spring. Prereq., EDU 397 or 427 (C&I

318 or 427). Emphasis on developing and supervising the school-wide literacy program and relating literacy research to educational practice to plan, implement, and assess a high quality reading/writing program.

UG 450 (C&I 400) Field Experience K-3 with Methods 1 cr. (R-2) Offered autumn and spring. Coreq., EDU 497 (C&I 402, 403, 404, and 405). Arranged field experience in an elementary classroom, kindergarten through third grade, completed with the Elementary Professional Methods Block. Students register for EDU 450 (C&I 400) if their previous assignment was in grade 4 or above classroom.

UG 451 (C&I 401) Field Experience 4-8 with Methods 1 cr. (R-2) Offered autumn and spring. Coreq., EDU 497 (C&I 402, 403, 404 and 405). Arranged field experience in an elementary or middle school classroom, grades 4-8, completed with Elementary Professional Methods Block. Students register for EDU 451 (C&I 401) if their previous assignment was in grades K-3.

UG 456 (C&I 437) Application of Literacy Models K-12 6 cr. Offered summer intermittently. Prereq., EDU 438 (C&I 433) or C&I 533. Provides classroom teaching experience under direct supervision. Candidates teach reading and writing and apply knowledge of assessing and correcting reading and writing difficulties in grades K-12.

UG 472 (C&I 444) Advanced Technology and Supervision 3 cr. Offered spring. Planning, supervision, utilization, and evaluation of advanced technology in vocational business and information technology education.

UG 481 (C&I 427) Content Area Literacy 3 cr. Offered autumn and spring. Prereq., EDU 221 (C&I 303). Theories, models, instructional approaches for using literacy for learning in content fields. Emphasis on research, instructional practice, classroom assessment, multicultural and discipline integration.

UG 488 Libraries and Technology 3 cr. Offered spring. Coreq., C&I 483. Uses of digital technologies in all aspects of library media center operations, including cataloging and circulation, collection development, reference services and administration.

UG 491 (C&I 455/495) Special Topics/Experim Courses Variable cr. (R-6) Offered intermittently. Special courses experimental in nature dealing with a relatively narrow, specialized topic of particular current interest. Credit not allowed toward a graduate degree.

UG 492 (C&I 496) Independent Study Variable cr. (R-6) Offered every semester. Prereq., consent of instr.

UG 494 (C&I 494) Seminar/Workshop Variable cr. (R-9) Offered every semester for portfolio credit. Prereq., consent of instr. Offered intermittently for group analysis of problems in specific areas of education.

U 495 (C&I 481) Student Teaching: K-8 Elementary Variable cr. (R-14) Offered autumn and spring. Prereq., passing score on Writing Proficiency Assessment; the Professional Methods Block, a minimum of 9 credits in the selected area of concentration, a minimum of 9 credits from the following: ARTZ 302A (ART 314A), DANC 346 (DAN 327), THTR 339 (DRAM 327), HHP 339, and MUSE 397 (MUS 335); approval by advisor, and consent of Director of Field Experiences. Coreq., EDU 494 (C&I 494).

U 495 (C&I 482) Student Teaching: 5-12 Secondary Variable cr. (R-14) Offered autumn and spring. Prereq., passing score on Writing Proficiency Assessment, all methods courses, two thirds of content course work, approval by departments in the major/minor content area, and consent of Director of Field Experiences. Coreq., EDU 494 (C&I 494).

UG 497 (C&I 402) Methods: K-8 Mathematics 3 cr. Offered autumn and spring. Prereq., EDU 395, 370, 331, 397, 345 (C&I 300, 306, 316, 318, 410), M 135 and 136 (Math 130 and 131), and general education/content/speciality classes. Coreq., EDU 450/451, 497, 497, 497 (C&I 400/401, 403, 404 and 405). Methods for teaching elementary school mathematics through a child-centered laboratory approach focusing on the use of manipulatives, models, problem solving, and technology. Emphasis on multiple assessment strategies to determine student progress and methods to evaluate elementary mathematics programs.

UG 497 (C&I 403) Methods: K-8 Social Studies 3 cr. Offered autumn and spring. Prereq., EDU 395, 370, 331, 397, 345 (C&I 300, 306, 316, 318, 410), PSCI 210S (PSC 100) HSTA 255, (HIST 269) and selected history course, GPHY 121S or 141S (GEOG 101 or 103) and all general education/content/specialty classes. Coreq., EDU 450/451, 497, 497 (C&I 400/401, 402, 404 and 405). Emphasis on developing, teaching, and assessing social studies teaching/learning opportunities that incorporate literature, primary sources, and other developmentally appropriate activities. Overarching themes address diversity, integration across the curriculum, and understanding state and national curriculum standards.

UG 497 (C&I 404) Methods: K-8 Science 3 cr. Offered autumn and spring. Prereq., EDU 395, 370, 331, 397, 345 (C&I 300, 306, 316, 318, 410); SCI 225N, 226N, 350 and all general education/content/specialty classes. Coreq., EDU 450/451, 497, 497, 497 (C&I 400/401, 402, 403 and 405). Emphasis on developing, teaching, and assessing science teaching/learning opportunities that are inquiry-based, developmentally appropriate, integrated across the curriculum, and aligned with state and national curriculum standards.

UG 497 (C&I 405) Methods: PK-8 Reading 3 cr. Offered autumn and spring. Prereq., EDU 395, 370, 331, 397, 345 (C&I 300, 306, 316, 318, 410), selected literature course, and all general education/content/specialty classes. Coreq., EDU 450/451, 497, 497, 497 (C&I 400/401, 402, 403 and 404). Preparation for teaching reading in a P-8 setting to children from a variety of backgrounds and wide range of academic abilities. Emphasis on integrating the strands of a quality reading program at each grade level, becoming familiar with literacy materials, applying best practices in reading assessment, and developing student enthusiasm for reading.

UG 497 (C&I 426) Methods: 5-12 Science 3 cr. Offered autumn. Prereq., EDU 221 (C&I 303), a science teaching major or minor. Methods and materials to teach science in grades 5-12. Techniques of evaluation.

UG 497 (C&I 428) Methods: 5-12 Social Studies 3 cr. Offered autumn. Prereq., EDU 221 (C&I 303). Foundations and purpose of the middle and secondary social studies curriculum. Elements of lesson design, including instructional methods, materials and assessment.

UG 497 (C&I 430) Methods: 5-12 Mathematics 4 cr. Offered autumn. Prereq., EDU 202 and 221 (C&I 200 and 303), and at least two-thirds of the teaching major or minor in mathematics. Methods for teaching mathematics in grades 5-12 focusing on presentation of mathematics concepts and procedures through models, problem solving, and technology. Development of instructional strategies and classroom organizational models, discourse in the classroom, and multiple means for assessing student progress.

UG 497 (C&I 429) Methods: 5-12 Business Subjects 4 cr. Offered autumn. Prereq., EDU 221 (C&I 303), business teaching experience. Methods of unit and lesson planning methods of instruction and presentation including learning theory computer applications student assessment micro teaching test design and evaluation of business courses and students.

Faculty

Professors

Lisa M. Blank, Ph.D., Indiana University, 1997

Georgia A. Cobbs, Ph.D., The Ohio State University, 1995

Janice LaBonty, Ph.D., University of Nebraska, 1987

Jean A. Luckowski, Ed.D., Oklahoma State University, 1983

Darrell W. Stolle, Ed.D., University of Montana, 1998

Richard van den Pol, Ph.D., Western Michigan University, 1981

Associate Professors

Morgen Alwell, Ph.D., Colorado State University, 2004

Trent L. Atkins, Ph.D., University of Oregon, 2003 (Chair)

Fletcher Brown, Ph.D., Miami University, 1994

David R. Erickson, Ph.D., The Ohio State University, 1994

Ann N. Garfinkle, Ph.D., University of Washington, 1999

Martin G. Horejsi, Ph.D., Idaho State University, 1999

Matthew Schertz, Ed.D., Montclair State University, 2004

Sandra R. Williams, Ed.D., The University of Montana, 2000

Assistant Professors

Kathryn Brayko, Ph.D., University of Washington, 2012

Lucila T. Rudge, Ph.D., The Ohio State University, 2008

Research Faculty

Nancy Arnold, Ph.D., University of Northern Colorado, 1995

Theodore Maloney, M.A., Goddard College, 1978

Gail McGregor, Ed.D., The Johns Hopkins University, 1984

Sarah Mulligan, M.Ed., University of Washington, 1981

Susan Toth, M.A., University of Iowa, 1974

R. Timm Vogelsberg, Ph.D., University of Illinois, 1979

Emeritus Professors

Rhea Ashmore, Ed.D., The University of Montana, 1981

Carolyn J. Lott, Ed.D., The University of Montana, 1985

College of Education and Human Sciences

Roberta D. Evans, Dean

Susan Harper-Whalen, Associate Dean

The Phyllis J. Washington College of Education and Human Sciences is comprised of five academic departments—Communicative Sciences and Disorders, Counselor Education, Curriculum and Instruction, Educational Leadership, and Health and Human Performance. It is also the home for the Institute for Educational Research and Service (IERS). Its mission is as follows:

The College of Education and Human Sciences shapes professional practices that contribute to the development of human potential. We are individuals in a community of lifelong learners, guided by respect for knowledge, human dignity, and ethical behavior. We work together producing and disseminating knowledge to advance the physical, emotional, and intellectual health of a diverse society.

The College of Education and Human Sciences coordinates The University of Montana Professional Education Unit, a unit comprised of initial teacher preparation at the elementary and secondary levels, and the advanced preparation of teachers, certified speech-language pathologists, educational leaders, school counselors, and school