

SECONDARY EDUCATION (B.S.)

Education (Secondary) Leading to Grades 6 - 12 Certification (Bachelor's Degree Programs)

The secondary education curriculum leads to a bachelor's degree in education and secondary school teaching certification in the major and minor areas listed below. Whereas this degree is granted by the College of Education, students also have the option of earning secondary school certification in conjunction with a bachelor's degree from the College of Fine, Performing and Communication Arts or the College of Liberal Arts and Sciences. For information regarding these combined degree programs, see an advisor. No grade below 'C' may be used to meet requirements specific to secondary education, the major, the minor (including the planned minor), or professional education courses; a grade of 'C-minus' is not acceptable.

All students must complete the College Requirements, Level 2 Education Requirements, and a major area of study.

Admission: Level 1 Entry to the College of Education

All students intending to pursue a teaching curriculum who enter the University directly from high school, or transfer from other colleges are directly admitted by the University Admissions Office (<http://bulletins.wayne.edu/undergraduate/general-information/admission/>) into the College of Education in Level 1 status.

Admission: Level 2 Entry to Professional Education Sequence

The standards listed below apply to those students entering the College of Education at Level 2: those working for a secondary or elementary school teaching certificate; those in a combined degree program; and those previously admitted at the freshman or sophomore level to the College of Education.

Eligibility for admission is based on the following criteria:

1. Satisfactory completion of fifty-three semester or eighty quarter credits of course work with an overall grade point average of 2.5 or above. In addition, the grade point average for any courses taken at Wayne State University must be 2.5 or above. This coursework should generally conform to the Level 1 courses prescribed by the College for students who expect to prepare for teaching. The quality of work, especially in the major area, must indicate a strong potential for success in a teacher-education program.
2. Intermediate Composition Competency Requirement: All Education students must satisfactorily complete the University intermediate composition competency (<http://bulletins.wayne.edu/undergraduate/general-information/general-education/competency-requirements/>) requirement prior to admission.
3. Physical Health: Definite standards of health must be met by all students entering the College. All students are required to present a negative tuberculosis (T.B.) test prior to admission.
4. Group Work Experience: All students must have verifiable successful group work (forty hours) experience with children.

5. Criminal History Check: All students must submit a current (within the last six months) statewide criminal history check (http://coe.wayne.edu/pdfs/criminal_history_new.pdf).
6. Elementary Education: Students seeking admission to Elementary Education must complete MAT 1110
7. Special Education: Students seeking admission to Special Education must have completed the following courses:

Code	Title	Credits
MAT 1110	Mathematics for Elementary School Teachers I (or have appropriate prerequisite math course in progress)	3
PSY 1010	Introductory Psychology	4
PSY 2400	Developmental Psychology	4
Select one of the following:		3-4
BIO 1030	Biology Today	
BIO 1050	An Introduction to Life	
BIO 1500	Basic Life Diversity	
BIO 1510	Basic Life Mechanisms	
SCE 5010	Biological Sciences for Elementary and Middle School Teachers	

8. Secondary Education: Students seeking admission to Secondary Education must have twelve-semester credits completed in the major
9. Specific Prerequisites or other special requirements of the curriculum area for which the student is applying.

Application for Level 2 Standing

Upon completion of a minimum of fifty-three-semester credits of college coursework and all other Level 2 admission requirements, students should apply for College of Education Level 2 standing (https://waynestate.az1.qualtrics.com/jfe/form/SV_3qKtBNQIsMH0zyJ/). Applicants who have completed college work in institutions other than Wayne State must first apply for admission through the University Office of Admissions (<http://bulletins.wayne.edu/undergraduate/general-information/admission/>).

Students who intend to receive degrees from other colleges in the University AND a teaching certificate from the College of Education must apply to the Combined Program through Academic Services, 489 Education Building. All applicants to Level 2 must attend Cornerstone Welcome.

Level 1 Requirements

The following courses and course options are required of all students seeking secondary (grades 6-12) certification regardless of selection of major or minor studies. Some of these courses may also satisfy the University General Education Requirements (<http://bulletins.wayne.edu/undergraduate/general-information/general-education/>).

College Requirements

Code	Title	Credits
Choose One of the Following		
PS 1010	American Government	
PS 1030	The American Governmental System	
Choose One of the Following		
PSY 1010	Introductory Psychology	
PSY 1020	Elements of Psychology	
Choose One of the Following		
BIO 1030	Biology Today	

BIO 1050	An Introduction to Life
BIO 1500	Basic Life Diversity
BIO 1510	Basic Life Mechanisms
Choose One of the Following	
HE 2310	Dynamics of Personal Health
HE 3300	Health of the School Child
HE 6500	Secondary Health Methods
LFA 2330	First Aid and CPR
Required Introductory Course	
TED 2250	Becoming an Urban Educator

Level 2 Education Requirements (Grades 6-12 Certification)

Code	Title	Credits
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The following courses are required of all students seeking secondary (grades 6-12) certification. The selection of courses to fulfill the methods requirements is predicated on the student's choice of major/minor.

The following courses may be taken in Level 1 or 2:

BBE 5000	Multicultural Education in Urban America
SED 5010	Inclusive Teaching
TED 6020	Computer Applications in Teaching I

The following courses may be elected at any time after admission to Level 2 and must be completed prior to TED 5780:

EHP 3600	Introduction to the Philosophy of Education
EDP 5480	Adolescent Psychology
RLL 6121	Teaching Reading in the Content Areas: Grades 6-12
TED 5650	Pre-Student Teaching Field Experience for Secondary Majors ³

Teaching methods in the major (two courses)	6
Teaching methods in the minor (one course)	3

The Teaching Major and Teaching Minor and the Michigan Test for Teacher Certification (MTTC) subject area tests must be completed prior to student teaching.

Final clinical experience	
TED 5780	Directed Teaching and Conference

Biology: Teaching Major

Code	Title	Credits
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Content Area Requirements

BIO 1500	Basic Life Diversity	4
BIO 1510	Basic Life Mechanisms	4
BIO 2200	Introductory Microbiology	5
BIO 2600	Introduction to Cell Biology	4
BIO 2870	Anatomy and Physiology	5
BIO 3070	Genetics	4
BIO 3500	Ecology and the Environment	3
BIO 4200	Evolution	3

Additional Science Requirements

CHM 1100	General Chemistry I	4
CHM 1130	General Chemistry I Laboratory	1
ESG 1010	Geology: The Science of the Earth	3
ESG 1011	Geology: The Science of the Earth Laboratory	1
PHY 2130	Physics for the Life Sciences I	4
PHY 2131	Physics for the Life Sciences Laboratory	1

SCE 6010	Safety in the Science Classroom	2
Science Elective(s)		5

Additional Mathematics Requirements

MAT 2010	Calculus I	4
STA 2210	Probability and Statistics	4

Methodology Requirements

SCE 5060	Methods and Materials of Instruction in Secondary School Science I	3
SCE 5070	Methods and Materials of Instruction in Secondary School Science II	3

Total Credits		67
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Chemistry: Teaching Major

Code	Title	Credits
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Content Area Requirements

CHM 1100	General Chemistry I	4
CHM 1130	General Chemistry I Laboratory	1
CHM 1140	General Chemistry II	4
CHM 1150	General Chemistry II Laboratory	1
CHM 1240	Organic Chemistry I	4
CHM 1250	Organic Chemistry I Laboratory	1
CHM 2220	Organic Chemistry II	4
CHM 2230	Organic Chemistry II Laboratory	1
CHM 3020	Intermediate Inorganic Chemistry I	3
CHM 5400	Biological Physical Chemistry	3
CHM 5550	Physical Chemistry Laboratory	2
CHM 5600	Survey of Biochemistry	3
SCE 6010	Safety in the Science Classroom	2

Additional Science Requirements

BIO 1050	An Introduction to Life	3
ESG 1010	Geology: The Science of the Earth	3
ESG 1011	Geology: The Science of the Earth Laboratory	1
PHY 2130	Physics for the Life Sciences I	4
PHY 2131	Physics for the Life Sciences Laboratory	1
Science Elective(s)		4

Additional Mathematics Requirements

MAT 2010	Calculus I	4
STA 2210	Probability and Statistics	4

Methodology Requirements

SCE 5060	Methods and Materials of Instruction in Secondary School Science I	3
SCE 5070	Methods and Materials of Instruction in Secondary School Science II	3

Total Credits		63
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Earth/Space Science: Teaching Major

Code	Title	Credits
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Content Area Requirements

ESG 1010	Geology: The Science of the Earth	3
ESG 1011	Geology: The Science of the Earth Laboratory	1
ESG 1020	Interpreting the Earth	4
ESG 1050	Oceanography	4
ESG 1370	Meteorology: The Study of Weather	3
ESG 2130	Mineralogy	4
ESG 3160	Petrology	4

ESG 3300	Structural Geology	4
ESG 3400	Principles of Sedimentology and Stratigraphy	4
AST 2010	Descriptive Astronomy	4
AST 2011	Descriptive Astronomy Laboratory	1
Additional Science Requirements		
BIO 1050	An Introduction to Life	3
CHM 1100	General Chemistry I	4
CHM 1130	General Chemistry I Laboratory	1
SCE 6010	Safety in the Science Classroom	2
PHY 2130	Physics for the Life Sciences I	4
PHY 2131	Physics for the Life Sciences Laboratory	1
Additional Mathematics Requirements		
MAT 2010	Calculus I	4
STA 2210	Probability and Statistics	4
Methodology Requirements		
SCE 5060	Methods and Materials of Instruction in Secondary School Science I	3
SCE 5070	Methods and Materials of Instruction in Secondary School Science II	3
Total Credits		65

Economics: Teaching Major

(Minimum 36 credit hours)

Courses include:

Code	Title	Credits
Content Area Requirements		
ECO 2010	Principles of Microeconomics	0-4
ECO 2020	Principles of Macroeconomics	4
ECO 5100	Introductory Statistics and Econometrics	4
ECO 5300	International Trade	4
or ECO 5310	International Finance	
ECO 5400	Labor Economics	4
Economics Elective at or above the 5000 level		4
Economics Elective at or above the 5000 level		4
Methodology Requirements		
SSE 6710	Methods and Materials of Instruction in Secondary Social Studies	3
SSE 6730	New Perspectives in Social Studies Education	3

English: Teaching Major

(Minimum 36 credit hours)

Code	Title	Credits
Content Area Requirements		
ENG 2200	Shakespeare	3
ENG/AFS 2390	Introduction to African-American Literature: Literature and Writing	3
ENG 3110	English Literature to 1700	3
ENG 3120	English Literature after 1700	3
ENG 3130	American Literature to 1865	3
ENG 3140	American Literature after 1865	3
ENG 5420	American Literature: 1865-1914	3
or ENG 5450	Modern American Literature	
ENG 5720	Linguistics and Education	3
ENG 5730	English Grammar	3

ENG 6010	Tutoring Practicum	3
Methodology Requirements		
EED 5200	Methods of Teaching English: Grades 7-12	3
EED 6120	English Composition in Secondary Schools	3
or EED 6330	Teaching Literature in Secondary Schools	
Total Credits		36

History: Teaching Major

(Minimum 36 credit hours)

Code	Title	Credits
Content Area Requirements		
HIS 1000	World Civilization to 1500	3-4
HIS 1300	Europe and the World: 1500-1945	3-4
HIS 1400	The World Since 1945	3-4
HIS 2040	American Foundations to 1877	3-4
HIS 2050	Modern America: Since 1877	3-4
HIS 2240	History of Michigan	3-4
HIS 3140	African American History I: 1400-1865	3-4
HIS 3150	African American History II: 1865-1968	3-4
History Elective at or above the 3000 level		3
History Elective at or above the 3000 level		3
Methodology Requirements		
SSE 6710	Methods and Materials of Instruction in Secondary Social Studies	3
SSE 6730	New Perspectives in Social Studies Education	3
Total Credits		36-44

Integrated Science: Teaching Major

Integrated Science is defined by the Michigan Department of Education as a comprehensive major: A teaching minor is not required.

Code	Title	Credits
Content Area Requirements		
Biology (five courses for twenty credits)		
BIO 1500	Basic Life Diversity	4
BIO 1510	Basic Life Mechanisms	4
BIO 2200	Introductory Microbiology	5
BIO 3070	Genetics	4
BIO 4120	Comparative Physiology	4
Chemistry (four courses, plus labs for seventeen credits)		
CHM 1100 & CHM 1130	General Chemistry I and General Chemistry I Laboratory	5
CHM 1240 & CHM 1250	Organic Chemistry I and Organic Chemistry I Laboratory	5
CHM 2220 & CHM 2230	Organic Chemistry II and Organic Chemistry II Laboratory	5
SCE 6010	Safety in the Science Classroom	2
Physics (three courses, plus corequisite labs for twelve credits)		
PHY 2130 & PHY 2131	Physics for the Life Sciences I and Physics for the Life Sciences Laboratory	5
PHY 2140 & PHY 2141	Physics for the Life Sciences II and Physics for the Life Sciences Laboratory	5
PHY 5015 & PHY 3310	Non-classical Physics for Educators and Introductory Modern Physics Laboratory	5
Earth/Space Science (three courses, plus lab for twelve credits)		

AST 2010	Descriptive Astronomy	5
& AST 2011	and Descriptive Astronomy Laboratory	
ESG 1010	Geology: The Science of the Earth	3
ESG 1011	Geology: The Science of the Earth Laboratory	1
ESG 1370	Meteorology: The Study of Weather	3
Additional Requirements		
MAT 1800	Elementary Functions	4
Elective in: Mathematics or Computer Science		
Methodology Requirements		
SCE 5060	Methods and Materials of Instruction in Secondary School Science I	3
SCE 6030	Advanced Studies in Teaching Science in the Junior High and Middle School	3
Total Credits		77

Mathematics: Teaching Major

(Minimum 47 credit hours)

Code	Title	Credits
Content Area Requirements		
MAT 2010	Calculus I	4
MAT 2020	Calculus II	4
MAT 2030	Calculus III	4
MAT 2250	Elementary Linear Algebra	3
MAT 2860	Discrete Mathematics	3
MAT 5000	Fundamental Concepts of Mathematics and Proof Writing	3
Select one of the following:		
MAT 5070	Elementary Analysis	3-4
MAT 5400	Elementary Theory of Numbers	
MAT 5520	Introduction to Topology	
Select One of the Following		
MAT 5420	Algebra I	4
MAT 6170	Algebra: Ring Theory Through Exploration, Conjecture, and Proof	
MAT 6140	Geometry: An Axiomatic Approach	3
MAE/MAT 6200	Teaching Arithmetic, Algebra and Functions from an Advanced Perspective	3
MAE/MAT 6210	Teaching Geometry, Probability and Statistics, and Discrete Mathematics from an Advanced Perspective	3
STA 2210	Probability and Statistics	4
Methodology Requirements		
MAE 5150	Methods and Materials of Instruction: Secondary School Mathematics	3
MAE 6050	Teaching Mathematics in the Middle Grades	3
Total Credits		47-48

Physics: Teaching Major

Code	Title	Credits
Content Area Requirements		
PHY 2170	University Physics for Scientists I	4
PHY 2171	University Physics Laboratory	1
PHY 2180	University Physics for Scientists II	4
PHY 2181	University Physics Laboratory II	1
PHY 3300	Introductory Modern Physics	3

PHY 3310	Introductory Modern Physics Laboratory	2
PHY 5200	Classical Mechanics I	4
PHY 5340	Optics	3
PHY 5341	Optics Laboratory	2
PHY 5620	Electronics and Electrical Measurements	3
PHY 6600	Electromagnetic Fields I	4
Additional Science Requirements		
BIO 1050	An Introduction to Life	3
CHM 1100	General Chemistry I	4
CHM 1130	General Chemistry I Laboratory	1
SCE 6010	Safety in the Science Classroom	2
ESG 1010	Geology: The Science of the Earth	3
ESG 1011	Geology: The Science of the Earth Laboratory	1
Science Elective(s)		
Additional Mathematics Requirements		
MAT 2010	Calculus I	4
STA 2210	Probability and Statistics	4
Methodology Requirements		
SCE 5060	Methods and Materials of Instruction in Secondary School Science I	3
SCE 5070	Methods and Materials of Instruction in Secondary School Science II	3
Total Credits		63

Political Science: Teaching Major

(Minimum 36 credit hours)

Code	Title	Credits
Content Area Requirements		
PS 1010	American Government	4
PS 2710	Introduction to Comparative Politics	4
PS 2810	World Politics	4
PS 3020	Political Parties and Elections	4
PS 3070	Michigan Politics	4
PS 5120	Constitutional Rights and Liberties	4
Political Science Elective at or above the 3000 level		
Political Science Elective at or above the 3000 level		
Methodology Requirements		
SSE 6710	Methods and Materials of Instruction in Secondary Social Studies	3
SSE 6730	New Perspectives in Social Studies Education	3
Total Credits		36

Social Studies (Comprehensive): Teaching Major

(Minimum 60 credit hours)

A comprehensive major, as defined by the Michigan Department of Education, does not require a teaching minor. Courses include:

Code	Title	Credits
Content Area Requirements		
ECO 2010	Principles of Microeconomics	3
ECO 2020	Principles of Macroeconomics	3
GPH 1100	World Regional Patterns	4
GPH 2000	Introduction to Urban Studies	4

GPH 2200	Geography of Michigan	3
HIS 1000	World Civilization to 1500	3
HIS 1300	Europe and the World: 1500-1945	3
HIS 1400	The World Since 1945	3
HIS 2040	American Foundations to 1877	3
HIS 2050	Modern America: Since 1877	3
HIS 2240	History of Michigan	3
PS 1010	American Government	4
PS 2420	Ethics and Politics of Public Policy	4
PS 2820	Introduction to Peace and Conflict Studies	3
PS 3070	Michigan Politics	4

Methodology Requirements

SSE 6710	Methods and Materials of Instruction in Secondary Social Studies	3
SSE 6730	New Perspectives in Social Studies Education	3

Social Studies (Group): Teaching Major

(Minimum 42 credit hours)

Code	Title	Credits
Content Area Requirements		
ECO 2010	Principles of Microeconomics	3-4
ECO 2020	Principles of Macroeconomics	3-4
GPH 1100	World Regional Patterns	4
GPH 2200	Geography of Michigan	3
HIS 1000	World Civilization to 1500	3-4
HIS 1300	Europe and the World: 1500-1945	3-4
HIS 2040	American Foundations to 1877	3-4
HIS 2050	Modern America: Since 1877	3-4
HIS 2240	History of Michigan	3-4
PS 1010	American Government	4
PS 3070	Michigan Politics	4
Methodology Requirements		
SSE 6710	Methods and Materials of Instruction in Secondary Social Studies	3
SSE 6730	New Perspectives in Social Studies Education	3
Total Credits		42-49

Trade and Industry: Teaching Major

(Minimum 36 credit hours)

Requires a second academic teaching major; a teaching minor is not required.

Code	Title	Credits
Content Area Requirements		
The required coursework varies by the specific occupational area. Examples of occupational areas include: Drafting & Design Technology, Construction Trades, Automobile Technician, Machine Tool Operations/Machine Shop, Welding, Woodworking General, etc... See an advisor for more information.		
Methodology Requirements		
CTE 5501	Instructional Practices for the Teacher Cadet Classroom - Module 1	1
CTE 5502	Instructional Practices for the Teacher Cadet Classroom - Module 2	1
CTE 5503	Instructional Practices for the Teacher Cadet Classroom - Module 3	1

CTE 5504	Instructional Practices for the Teacher Cadet Classroom - Module 4	1
CTE 5505	Instructional Practices for the Teacher Cadet Classroom - Module 5	1
CTE 5506	Instructional Practices for the Teacher Cadet Classroom - Module 6	1

Visual Arts Education: Teaching Major

(Minimum of 57 credit hours in Foundation, Intermediate, Advanced Studio/Methodology courses; Minimum of 23 credit hours in Professional Education and Student Teaching courses)

A comprehensive major, as defined by the Michigan Department of Education, does not require a teaching minor.

This program is designed to provide professional preparation for individuals who seek K-12 certification in visual arts education. Students in this program receive the Michigan Secondary Provisional Teaching Certificate. It is recommended that students plan their coursework in advance with an advisor as accurately as possible to avoid extra courses or conflicts.

The program for visual arts education consists of University General Education Requirements (Competency Requirements and Group Requirements) for which see General Education Program: College Requirements; a teaching major of visual arts education with foundational, intermediate, and advanced studio coursework; and a sequence of professional education courses including one semester of half-day student teaching and one semester of full-day student teaching. The policy of the College of Education is to provide teaching experiences in both an urban and a suburban setting.

For specific course selections students should consult the College of Education advisor in room 469, Education Building.

Arabic: Teaching Minor

(Minimum 27 credit hours)

Students must score the Intermediate High Level in Arabic, as measured by the Oral Proficiency Interview (OPI) from the American Council on the Teaching of Foreign Languages (ACTFL).

Code	Title	Credits
Content Area Requirements		
ARB 3110	Advanced Arabic I	3
ARB 3120	Advanced Arabic II	3
ARB 3210	Spoken Arabic	3
ARB/NE 5230	Structure of Arabic	3
ARB 5140	Modern Arabic Literature in Arabic and English	3
NE 3040/ HIS 3320	Twentieth Century Middle East	3
NE/ANT 3550	Arab Society in Transition	3
Methodology Requirements		
LED 6520	Teaching English as a Second Language/Foreign Language: Methods I	3
Total Credits		24

Bilingual-Bicultural Education: Teaching Minor

(Minimum 23 credit hours)

Students must demonstrate superior proficiency (speaking, reading, and writing) in a non-English language as measured by the Oral Proficiency Interview (OPI) and Writing Proficiency Test (WPT) from the American Council on the Teaching of Foreign Languages. (ACTFL).

Code	Title	Credits
BBE 5500	Introduction to Bilingual/Bicultural Education	3
BBE 6560	Teaching Methods in Bilingual/Bicultural Education	3
BBE 6850	Applied Linguistics: Issues in Bilingual Education	3
BBE 6590	Culture and Language in Bilingual/Bicultural Education	3
LED 6520	Teaching English as a Second Language/Foreign Language: Methods I	3
LED 6555	Integration of Language and Content in Language Teaching	3
RLL 6700	Second Language Literacy Development: K-12	3
Total Credits		21

Note: An internship in Bilingual/Bicultural Teaching (BBE 6600) may be required. Students should consult their advisor for more information.

Biology Teaching Minor

Code	Title	Credits
Content Area Requirements		
BIO 1500	Basic Life Diversity	4
BIO 1510	Basic Life Mechanisms	4
BIO 2200	Introductory Microbiology	5
BIO 2870	Anatomy and Physiology	5
BIO 3070	Genetics	4
Additional Science Requirements		
SCE 6010	Safety in the Science Classroom	2
Additional Mathematics Requirements		
MAT 1800	Elementary Functions	4
Methodology Requirements		
SCE 5060	Methods and Materials of Instruction in Secondary School Science I	3
Total Credits		31

Chemistry: Teaching Minor

(Minimum 29 credit hours)

Code	Title	Credits
Content Area Requirements		
CHM 1100	General Chemistry I	4
CHM 1130	General Chemistry I Laboratory	1
CHM 1140	General Chemistry II	4
CHM 1150	General Chemistry II Laboratory	1
CHM 1240	Organic Chemistry I	4
CHM 1250	Organic Chemistry I Laboratory	1
CHM 2220	Organic Chemistry II	4
CHM 2230	Organic Chemistry II Laboratory	1
SCE 6010	Safety in the Science Classroom	2
Additional Mathematics Requirements		
MAT 1800	Elementary Functions	4
Methodology Requirements		

SCE 5060	Methods and Materials of Instruction in Secondary School Science I	3
Total Credits		29

Earth/Space Science: Teaching Minor

(Minimum 33 credit hours)

Code	Title	Credits
Content Area Requirements		
ESG 1010	Geology: The Science of the Earth	3
ESG 1011	Geology: The Science of the Earth Laboratory	1
ESG 1020	Interpreting the Earth	4
ESG 1370	Meteorology: The Study of Weather	3
ESG 2130	Mineralogy	4
ESG 3160	Petrology	4
AST 2010	Descriptive Astronomy	4
AST 2011	Descriptive Astronomy Laboratory	1
Additional Science Requirements		
SCE 6010	Safety in the Science Classroom	2
Additional Mathematics Requirements		
MAT 1800	Elementary Functions	4
Methodology Requirements		
SCE 5060	Methods and Materials of Instruction in Secondary School Science I	3
Total Credits		33

Economics: Teaching Minor

(Minimum 27 credit hours)

Courses include:

Code	Title	Credits
Content Area Requirements		
ECO 2010	Principles of Microeconomics	0-4
ECO 2020	Principles of Macroeconomics	4
ECO 5300	International Trade	4
or ECO 5310	International Finance	
ECO 5400	Labor Economics	4
Economics Elective at or above the 5000 level		3
Methodology Requirements		
SSE 6710	Methods and Materials of Instruction in Secondary Social Studies	3

English as a Second Language (ESL): Teaching Minor

(Minimum 23 credits hours)

A major or minor in Language Arts is strongly recommended with an ESL Minor.

Code	Title	Credits
BBE 6850	Applied Linguistics: Issues in Bilingual Education	3
LED 6510	Second Language Acquisition and the Teaching of Grammar	3
LED 6520	Teaching English as a Second Language/Foreign Language: Methods I	3
LED 6555	Integration of Language and Content in Language Teaching	3

LED 6565	Assessment in Language Teaching	3
LED 6580	Culture as the Basis for Language Teaching	3
RLL 6700	Second Language Literacy Development: K-12	3

Total Credits 21

Note: An internship in Bilingual/Bicultural Teaching (BBE 6600) may be required. Students should consult their advisor for more information.

English: Teaching Minor

(Minimum 27 credit hours)

Code	Title	Credits
Content Area Requirements		
ENG 2200	Shakespeare	3
ENG/AFS 2390	Introduction to African-American Literature: Literature and Writing	3
ENG 3110	English Literature to 1700	3
or ENG 3120	English Literature after 1700	
ENG 3130	American Literature to 1865	3
or ENG 3140	American Literature after 1865	
ENG 5420	American Literature: 1865-1914	3
or ENG 5450	Modern American Literature	
ENG 5720	Linguistics and Education	3
ENG 5730	English Grammar	3
ENG 6010	Tutoring Practicum	3
Methodology Requirements		
EED 5200	Methods of Teaching English: Grades 7-12	3
Total Credits		27

French: Teaching Minor

(Minimum 27 credit hours)

Students must score at the Advanced Low Level in French, as measured by the Oral Proficiency Interview (OPI) from the American Council on the Teaching of Foreign Languages (ACTFL)

History: Teaching Minor

(Minimum 27 credit hours)

Code	Title	Credits
Content Area Requirements		
HIS 1000	World Civilization to 1500	3-4
HIS 1300	Europe and the World: 1500-1945	3-4
HIS 1400	The World Since 1945	3-4
HIS 2040	American Foundations to 1877	3-4
HIS 2050	Modern America: Since 1877	3-4
HIS 2240	History of Michigan	3-4
HIS 3140	African American History I: 1400-1865	3-4
or HIS 3150	African American History II: 1865-1968	
Methodology Requirements		
SSE 6710	Methods and Materials of Instruction in Secondary Social Studies	3
Total Credits		24-31

Mathematics: Teaching Minor

(Minimum 34 credit hours)

Code	Title	Credits
Content Area Requirements		
MAT 2010	Calculus I	4
MAT 2020	Calculus II	4
MAT 2250	Elementary Linear Algebra	3
MAT 2860	Discrete Mathematics	3
MAT 5000	Fundamental Concepts of Mathematics and Proof Writing	3
Select One of the Following		
MAT 5420	Algebra I	
MAT 6170	Algebra: Ring Theory Through Exploration, Conjecture, and Proof	
MAT 6140	Geometry: An Axiomatic Approach	3
MAE/MAT 6210	Teaching Geometry, Probability and Statistics, and Discrete Mathematics from an Advanced Perspective	3
STA 2210	Probability and Statistics	4
Methodology Requirements		
MAE 5150	Methods and Materials of Instruction: Secondary School Mathematics	3
Total Credits		30

Physics: Teaching Minor

Code	Title	Credits
Content Area Requirements		
PHY 2130	Physics for the Life Sciences I	4
PHY 2131	Physics for the Life Sciences Laboratory	1
PHY 2140	Physics for the Life Sciences II	4
PHY 2141	Physics for the Life Sciences Laboratory	1
PHY 5015	Non-classical Physics for Educators	3
PHY 3310	Introductory Modern Physics Laboratory	2
PHY 5620	Electronics and Electrical Measurements	3
Physics Elective at or above the 1000 level		3
Additional Science Requirements		
SCE 6010	Safety in the Science Classroom	2
Additional Mathematics Requirements		
MAT 1800	Elementary Functions	4
Methodology Requirements		
SCE 5060	Methods and Materials of Instruction in Secondary School Science I	3
Total Credits		30

Political Science: Teaching Minor

(Minimum 26 credit hours)

Code	Title	Credits
Content Area Requirements		
PS 1010	American Government	4
PS 2710	Introduction to Comparative Politics	4
PS 2810	World Politics	4
PS 3020	Political Parties and Elections	4
PS 3070	Michigan Politics	4
Methodology Requirements		

SSE 6710	Methods and Materials of Instruction in Secondary Social Studies	3
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Total Credits **23**

Spanish: Teaching Minor

(Minimum 24 credit hours)

Students must score at the Advanced Low Level in Spanish, as measured by the Oral Proficiency Interview (OPI) from the American Council on the Teaching of Foreign Languages (ACTFL)

Code	Title	Credits
Content Area Requirements		
SPA 3025	Cultural Connections, Grammar and Composition II	3
SPA 3200	Conversation	3
SPA 3300	Introduction to Cultural and Literary Analysis	3
SPA 4610	Introduction to Early Modern Spanish Literature	3
or SPA 4620	Introduction to Modern and Contemporary Spanish Literature	
SPA 4630	Introduction to Colonial Latin American Literature	3
or SPA 4640	Introduction to Modern and Contemporary Latin American Literature	
SPA 5100	Advanced Composition	3
SPA 5200	Spanish Phonetics	3
Methodology Requirements		
LED 6520	Teaching English as a Second Language/Foreign Language: Methods I	3
Total Credits		24