The **Bachelor of Science in Education** with a major in Secondary Education leads to a Michigan Standard Teaching Certificate in one or more of the subjects below in Grades 6-12.

### ADVISING
- **Find my advisor**
- **Meet with my advisor**
- **Virtual Drop-Ins**

  *Tuesdays 9am to 4pm via Zoom*

### GENERAL EDUCATION*

**Competency Requirements:**
- Basic Composition
- Intermediate Composition
- Oral Communication
- Quantitative Experience

**Inquiry Requirements:**
- Natural Scientific Inquiry
- Natural Scientific Inquiry w/Lab
- Civic Literacy Inquiry
- Social Inquiry
- Cultural Inquiry
- Diversity Equity & Inclusion Inquiry
- Global Learning Inquiry

*major concentrations include courses which fulfill some general education requirements, please consult the appropriate advisor

### MICHIGAN TRANSFER AGREEMENT (MTA)
- Will meet all general education requirements at WSU
- Issued by the two year institution
- Minimum of 30 credits in certain areas
- Can be completed while attending WSU

### COLLEGE REQUIREMENTS
- course also meets a gen ed
- TED 2200/2205 (3cr) *Includes a 40-hour service learning field experience*
- PSY 1010/1020 (3-4cr)
- PS 1010/1030 (3-4cr)
- HE 2310/HE 3300/HE 6500/LFA 2330 (3cr)
- BIO 1030/1050/1500/1510 (3-4cr)

### CERTIFICATION SUBJECT AREAS

#### Major Concentrations (One Required)
(coursework on page 3)

- **SCIENCE (6-12)**
  - Integrated Science
  - Biology
  - Chemistry
  - Earth/Space
  - Physics

- **SOCIAL STUDIES (6-12)**
  - Economics
  - History
  - Political Science
  - Social Studies Group
  - Social Studies Comp

#### Minor Concentrations (Optional)
(see additional endorsements)

- **SCIENCE (6-12)**
  - Biology
  - Chemistry
  - Earth/Space
  - Physics

- **SOCIAL STUDIES (6-12)**
  - Economics
  - History
  - Political Science

### OTHER CERTIFICATION PROGRAMS AND OPTIONS

The following certification options have curriculum different from what is in this advising guide. Please see below for information about each of these options.

- **HEALTH & PHYSICAL EDUCATION TEACHING (K-12)**
  - Advising Guide

- **ENGLISH LANGUAGE ARTS**
  - Advising Guide (Grades 7-12)

- **MATHEMATICS**
  - Advising Guide (Grades 7-12)
  - Advising Guide (Grades 5-9)

- **MUSIC (VOCAL & INSTRUMENTAL)**
  - Music Education Homepage

- **VISUAL ARTS EDUCATION (K-12)**
  - Advising Guide

- **WORLD LANGUAGES (K-12)**
  - Arabic, French and Spanish Advising Guide
LEVEL 2 REQUIREMENTS
☐ 53 Credits – Can be in progress and includes transfer credit and courses taken at Wayne State.
☐ 2.5 Minimum GPA
☐ 12 Credits in Subject Major – Can be in progress
☐ TED 2200/2205 – Can be in progress
☐ Intermediate Composition Course
☐ 40 Hours of Group Work
with Children Form (not needed if TED 2250 taken at WSU in the last 5 years)
☐ Castle Branch Criminal History Check valid within 6 months
☐ Apply at go.wayne.edu/edulevel2
Level 2 uses a rolling admissions

MICHIGAN TEST FOR TEACHER CERTIFICATION (MTTC)
• MTTC Information
https://www.mttc.nesinc.com/
• MTTC Support
https://education.wayne.edu/students/mttc

EDUCATION COURSES (7 CREDITS)
The following courses may be taken in Level 1 or 2
☐ TED 2020: Technology Integration in Teaching (3cr)
☐ TED 2210: Foundations II (2cr)
☐ TED 2220: Foundations III (2cr)

LEVEL 2 COURSEWORK (8 CREDITS)
Professional Education Courses
☐ EDP 5480: Adolescent Psychology (2cr)
☐ EHP 3600: Introduction to the Philosophy of Edu (3cr)
☐ RLL 6121: Reading: Middle & Secondary Subjects (3cr)

METHODS COURSES (6-9 CREDITS)
Major Required (6 Credits) | Minor Optional (3 credits)
INTEGRATED SCIENCE
☐ SCE 5060: Methods & Materials: Secondary Science I (3cr)
☐ SCE 6030: Advanced Studies in Teaching Science (3cr)
BIOLOGY, CHEMISTRY, PHYSICS, EARTH/SPACE
☐ SCE 5060: Methods & Materials: Secondary Science I (3cr)
☐ SCE 5070: Methods & Materials: Secondary Science II (3cr)
SOCIAL STUDIES (ECONOMICS, HISTORY, POLITICAL SCIENCE)
☐ SSE 6710: Methods & Materials: Secondary Social Studies (3cr)
☐ SSE 6730: New Perspectives in Social Studies Education (3cr)

CLINICAL EXPERIENCES (15-17 CREDITS)
PRE STUDENT TEACHING
☐ TED 5650: Pre-Student Teaching for Secondary (5cr)
*Requires subject area methods course
*Requires formal application
STUDENT TEACHING
☐ TED 5780: Directed Teaching & Conference (10-12cr)
*Requires TED 5650 & all coursework
*Requires formal application

IMPORTANT RESTRICTIONS & REQUIREMENTS
• Minimum total credits to degree, 120
• 2.5 Minimum GPA required
• Minimum grade of “C” in major, program electives, program requirements, (BC), (ICN) & (QE)
• The Academics Exclusion Policy can be found by clicking here.
• Please consult the University Bulletin (bulletins.wayne.edu/undergraduate) for official curriculum.
## COMPREHENSIVE/GROUP MAJORS

### INTEGRATED SCIENCE
(61 credit minimum):
- BIO 1500: Basic Life Diversity (3cr)
- BIO 1501: Lab (3cr)  w/1500
- BIO 1510: Basic Life Mechanisms (3cr)
- BIO 1511: Lab (3cr)  w/1501
- BIO 2270: Principles of Microbiology (3cr)
- BIO 2271: Lab (2cr) w/2271
- BIO 3070: Genetics (4cr)
- BIO 4120: Comparative Phys (4cr)
- CHM 1100/30: Gen Chem I w/Lab (5cr)
- CHM 1240/50: Organic Chem I w/Lab (5cr)
- CHM 2220/30: Organic Chem II w/Lab (5cr)
- ESG 6010: Safety in the Sci Classroom (2cr)
- PHY 2130/31: Physics I w/Lab (5cr)
- PHY 2140/41: Physics II w/Lab (5cr)
- PHY 5015/3310: Physics for Educators (5cr)
- AST 2010/11: Astronomy w/Lab (5cr)
- ESG 1010/11: Geology w/Lab (4cr)
- ESG 1370: Meteorology (3cr)
- MAT 1800: Elective in Math or Computer Science (2cr)
- MAT 2010: Calculus II (4cr)
- PHY 2170/2171: Univ Physics w/lab (5cr)
- PHY 2180/2181: Univ Physics II w/lab (5cr)

### SOCIAL STUDIES GROUP
(36 credits minimum):
- PS 1010: American Government (4cr)
- PS 3070: Michigan Politics (4cr)
- GPH 1100: World Geography (4cr)
- GPH 2200: Geography of Michigan (3cr)
- HIS 1000: World Civ to 1500 (3cr)
- HIS 1300: Eur & World: 1500-1945 (3cr)
- HIS 2040: United States to 1877 (3cr)
- HIS 2050: United States Since 1877 (3cr)
- HIS 2240: History of Michigan (3cr)
- ECO 2010: Microeconomics (4cr)
- ECO 2020: Macroeconomics (4cr)
- ECO 5100: Stats & Econometrics (4cr)
- ECO 5300: International Trade (4cr)
- ECO 5310: International Finance (4cr)
- ECO 5400: Labor Economics (4cr)
- Two ECO Electives (5XXX or higher) (8cr)

### SOCIAL STUDIES MAJOR CONCENTRATIONS (SINGLE SUBJECT)

### BIOLOGY
(32 credit minimum):
- BIO 1500: Basic Life Diversity (3cr)
- BIO 1501: Lab (3cr)  w/1500
- BIO 1510: Basic Life Mechanisms (3cr)
- BIO 1511: Lab (3cr)  w/1501
- BIO 2270: Principles of Microbiology (3cr)
- BIO 2271: Lab (2cr) w/2271
- BIO 2600: Intro to Cell Biology (4cr)
- BIO 2870: Anatomy and Physiology (5cr)
- BIO 3070: Genetics (4cr)
- BIO 3500: Ecology & the Environment (3cr)
- BIO 4200: Evolution (3cr)
- Science electives (5cr)

### CHEMISTRY
(32 credit minimum):
- CHM 1100: General Chemistry I (4cr)
- CHM 1130: Lab (1cr)  w/1100
- CHM 1140: General Chemistry II (4cr)
- CHM 1150: Lab (1cr)  w/1150
- CHM 1240: Organic Chemistry I (4cr)
- CHM 1250: Lab (1cr)  w/1240
- CHM 2220: Organic Chemistry II (4cr)
- CHM 2230: Lab (1cr)  w/2220
- CHM 3020: Inter Inorganic Chem I (3cr)
- CHM 5400: Bio Physical Chemistry (3cr)
- CHM 5550: Physical Chemistry Lab (2cr)
- CHM 5600: Survey of Biochemistry (3cr)
- Science electives (4cr)

Additional coursework to complete major:
- MAT 2020: Calculus II (4cr)
- MAT 2030: Calculus III (4cr)
- PHY 2170/2171: Univ Physics I w/lab (5cr)
- PHY 2180/2181: Univ Physics II w/lab (5cr)

### EARTH/SPACE
(32 credit minimum):
- ESG 1010: Geology (3cr)
- ESG 1011: Lab (1cr) w/1010
- ESG 1200: Interpreting the Earth (4cr)
- ESG 1360: Oceanography (4cr)
- ESG 1370: Meteorology (3cr)
- ESG 2130: Mineralogy (4cr)
- ESG 3160: Petrology (4cr)
- ESG 3300: Structural Geology (4cr)
- ESG 3400: Sedimentology & Strat (4cr)
- STA 2210: Probability & Statistics (4cr)

### PHYSICS
(32 credit minimum):
- PHY 2170: University Physics I (4cr)
- PHY 2171: Lab (1cr) w/2170
- PHY 2180: University Physics II (4cr)
- PHY 2181: Lab (1cr) w/2180
- PHY 3310: Intro Modern Physics (3cr)
- PHY 3310: Lab (1cr) w/3300 (2cr)
- PHY 5200: Classical Mechanics I (3cr)
- PHY 5340: Optics (3cr)
- PHY 5341: Lab (1cr) w/5340 (2cr)
- PHY 5620: Elect & Measure (3cr)
- PHY 6600: Electromagnetic Fields I (3cr)
- Science electives (4cr)

Additional coursework to complete major:
- MAT 2020: Calculus II (4cr)
- MAT 2030: Calculus III (4cr)
- PHY 2170/2171: Univ Physics I w/lab (5cr)
- PHY 2180/2181: Univ Physics II w/lab (5cr)

### ECONOMICS
(30 credit minimum):
- ECO 2010: Microeconomics (4cr)
- ECO 2020: Macroeconomics (4cr)
- ECO 5100: Stats & Econometrics (4cr)
- ECO 5300: International Trade (4cr)
- ECO 5310: International Finance (4cr)
- ECO 5400: Labor Economics (4cr)
- Two ECO Electives (5XXX or higher) (8cr)

### POLITICAL SCIENCE
(30 credit minimum):
- PS 1010: American Government (4cr)
- PS 2710: Intro to Comp Politics (4cr)
- PS 2810: World Politics (4cr)
- PS 3020: Political Parties & Elections (4cr)
- PS 3070: Michigan Politics (4cr)
- PS 5120: Constitutional Rights (4cr)
- Two PS electives (3XXX or higher) (6cr)

### HISTORY
(30 credit minimum):
- HIS 1000: World Civilization to 1500 (3cr)
- HIS 1300: Eur & World: 1500-1945 (3cr)
- HIS 1400: World Since 1945 (4cr)
- HIS 2040: US Foundations to 1877 (3cr)
- HIS 2050: Modern US: Since 1877 (3cr)
- HIS 2240: History of Michigan (3cr)
- HIS 3140: Afr Am Hist I: 1400-1865 (3cr)
- HIS 3150: Afr Am Hist II: 1865-1968 (3cr)
- Two HIS electives (3XXX or higher) (6cr)

### SOCIAL STUDIES COMPREHENSIVE
(54 credits minimum):
- All courses included in the Social Studies Group Major plus the following:
  - PS 2420: Ethics of Public Policy (4cr)
  - PS 2820: Peace & Conflict Studies (3cr)
  - GPH 2000: Intro to Urban Studies (4cr)
  - HIS 1400: The World Since 1945 (4cr)
  - ECO 5410: Econ of Race & Gender (4cr)