ADVISING
Students are advised by their assigned major advisor while pursuing these additional endorsements.
• Find my advisor
• Meet with my advisor
• Virtual Drop-Ins
  Tuesdays 9am to 4pm via Zoom

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

CERTIFICATION AREAS
Grade Bands:
• Arabic (K-12)
• English Language Arts (7-12)
• French (K-12)
• Mathematics (7-12)
• Spanish (K-12)

ADDITIONAL CLINICAL EXPERIENCES
Students may be required to complete an additional clinical experience depending on which additional subjects/grade bands they add to their program. Please consult your advisor.

Please consult the University Bulletin (bulletins.wayne.edu/undergraduate) for official curriculum.
ADVISING GUIDE
Secondary Education
Additional Endorsements for Legacy Major Concentrations

SINGLE SUBJECT SCIENCE

REQUIREMENTS
- Choose from: Biology, Chemistry, Earth/Space, or Physics
- May only be added to a legacy major concentration
- Students pursuing single subject sciences must complete the following:
  1. Subject area Coursework (below)
  2. MAT 1800: Elementary Functions (4cr)
  3. SCE 6010: Safety in the Science Classroom (2cr)
  4. SCE 5060: Methods & Materials: Secondary Science I (3cr)

BIOLOGY
- BIO 1500: Basic Life Diversity (3cr)
- BIO 1501: Lab (concurrent w/1500) (1cr)
- BIO 1510: Basic Life Mechanisms (3cr)
- BIO 1511: Lab (concurrent w/1501) (1cr)
- BIO 2270: Principles of Microbiology (3cr)
- BIO 2271: Lab (concurrent w/2271) (2cr)
- BIO 2870: Anatomy and Physiology (5cr)
- BIO 3070: Genetics (4cr)

CHEMISTRY
- CHM 1100: General Chemistry I (4cr)
- CHM 1130: Lab (concurrent w/1100) (1cr)
- CHM 1140: General Chemistry II (4cr)
- CHM 1150: Lab (concurrent w/1150) (1cr)
- CHM 1240: Organic Chemistry I (4cr)
- CHM 1250: Lab (concurrent w/1240) (1cr)
- CHM 2220: Organic Chemistry II (4cr)
- CHM 2230: Lab (concurrent w/2220) (1cr)

EARTH/SPACE
- ESG 1010: Geology (3cr)
- ESG 1011: Lab (concurrent w/1010) (1cr)
- ESG 1020: Interpreting the Earth (4cr)
- ESG 1370: Meteorology (3cr)
- ESG 2130: Mineralogy (4cr)
- ESG 3160: Petrology (4cr)
- AST 2100: Descriptive Astronomy (4cr)
- AST 2110: Lab (concurrent w/2110) (1cr)

PHYSICS
- PHY 2130: Physics for Life Science I (4cr)
- PHY 2131: Lab (concurrent w/2130) (1cr)
- PHY 2140: Physics for Life Science II (4cr)
- PHY 2141: Lab (concurrent w/2140) (1cr)
- PHY 5015: Physics for Educators (3cr)
- PHY 3310: Lab (concurrent w/3315) (2cr)
- PHY 5620: Elect & Electrical Measure (3cr)
- PHY Elective (1XXX or higher) (3cr)

SINGLE SUBJECT SOCIAL STUDIES

REQUIREMENTS
- Choose from: Economics, History, or Political Science
- May only be added to a legacy major concentration
- Students pursuing these minors must complete the following:
  1. Subject area Coursework (below)
  2. SSE 6710: Methods and Materials of Instruction in Secondary Social Studies (3cr)

ECONOMICS
- ECO 2010: Microeconomics (4cr)
- ECO 2020: Macroeconomics (4cr)
- ECO 3500: International Trade (4cr)
- ECO 5310: International Finance (4cr)
- ECO 5400: Labor Economics (4cr)
- ECO Electives (5XXX or higher) (4cr)

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)

HISTORY
(30 credit minimum)
- HIS 1000: World Civilization to 1500 (3cr)
- HIS 1300: Eur & World: 1500-1945 (3cr)
- HIS 1400: The 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: AfrAm Hist I: 1400-1865 (3cr)
- HIS 3150: AfrAm Hist II: 1865-1968 (3cr)

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