



WESTERN MICHIGAN UNIVERSITY

**Harper College**

**Fall 2016**

## **Western Michigan University Secondary Education - Physics Curriculum Guide**

### **General information:**

- A Secondary Provisional Certificate is valid for teaching your subject areas (major and minor) in grades 6-12;
- Students must choose at least one teachable major and one teachable minor. For a list of **teachable majors and minors** see the content areas in secondary education on the WMU Secondary Education website;
- Students are encouraged to meet with a WMU education advisor as early as possible prior to transfer for assistance with their choice of majors and minors;
- Course sequencing at WMU in Secondary Education requires at least two years to complete, and a minimum of 60 credits of the overall degree must be completed at WMU;
- Students who choose **Physics** as their teaching major or minor will follow requirements in the Physics department for the major or minor. General education and teacher preparation requirements are determined by the College of Education and Human Development (**CEHD**);
- All applicants intending to pursue a teaching program at WMU will be admitted into “pre-education” at the time of admission to WMU. After completion of the pre-professional requirements, pre-education students must apply to the upper level as indicated below;
- For students who started at Harper before Fall 2014, and will transfer directly to WMU, **your requirements may be different**. Please check with the CEHD advising office (contact information is listed below);
- At the end of their professional education program, students must complete a minimum of one semester of Internship (Student Teaching).

### **Pre-Professional Requirements for Secondary Education CAS Majors:**

After satisfying of the following requirements students should submit the Professional Education Admission application for admission to upper professional level education courses:

- Completion of at least 60 credit hours;
- Completion of all WMU Intellectual Skills Development classes IF REQUIRED (e.g. MATH 1090, LS 1040, ENG 1000);
- Completion of an approved college level writing class;
- Completion of ES 2000 or an approved course with a grade of CB (2.5) or better;
- Achievement of a cumulative grade point average (GPA) of 3.00 or better; \*\*

- Achievement of passing scores on the Michigan Test for Teacher Certification (MTTC)- Professional Readiness Exam (PRE) (#96), or passing by an alternate method. Please contact the CEHD advising office if you have questions;
- Completion of a background check through Castle Branch at [portal.castlebranch.com/wc48](http://portal.castlebranch.com/wc48) with Submission of Judgment of Sentence or Register of Action for any convictions, if necessary;
- Submission of a formal application to the Office of Admissions and Advising, Western Michigan University, Kalamazoo, MI 49008-5275;
- Please visit the WMU College of Education website for additional information.

\*\* Any student with a cumulative GPA between 2.75 and 2.99 who has met all of the other requirements may apply for provisional admission to the professional education program. Provisional admission decisions will be made by secondary education faculty and admission is not guaranteed.

**Courses that can be taken at Harper:**

**WMU courses**

PHYS 1040 and 1030  
 PHYS 2050 and 2060  
 PHYS 2070 and 2080  
 CHEM 1100 and 1110  
 CHEM 1120 and 1130  
 MATH 1220  
 MATH 1230  
 MATH 2720

**Harper courses**

AST 101  
 PHY 201\*  
 PHY 202\*  
 CHM 121  
 CHM 122  
 MTH 200  
 MTH 201  
 MTH 202

The Physics department recommends that Secondary Education Physics majors be proficient in a computer programming language before graduation.

\*These 2 courses may be taken by students who plan to MINOR in Physics. Twenty five credits are required in this minor.

**General education requirements:**

- Please refer to the [WMU general education transfer guide](#) and talk with your WMU College of Education and Human Development (CEHD) advisor.

**Contact information:**

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College of Education and Human Development (CEHD)  
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 (269) 387 - 3474