



WESTERN MICHIGAN UNIVERSITY

North Central Michigan College

Fall 2016

Western Michigan University Secondary Education - Chemistry 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 **Chemistry** as their teaching major or minor will follow requirements in the Chemistry 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 NCMC 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 completion 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 credits;
- Completion of all WMU Intellectual Skills Development classes IF REQUIRED (e.g. MATH 1090, LS 1040, and 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;
- Criminal background check and Judgment of Sentence or Register of Action for any convictions;
- 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 NCMC:

WMU courses	NCMC courses
CHEM 1100 and 1110	CEM 121
CHEM 1120 and 1130	CEM 122
CHEM 3750 and 3760	CEM 231
CHEM 3770 and 3780	CEM 232
MATH 1220	MATH 150
MATH 1230	MATH 210
MATH 2720	MATH 215
PHYS 2050 and 2060	PHY 230
PHYS 2070 and 2080	PHY 231

Students who major in chemistry must take the last 14 chemistry credits at WMU. The major includes 34 credit hours of chemistry and the calculus and physics courses listed above.

The chemistry **minor** will consist of at least 20 credit hours- the last 7 of which must be taken at WMU. Chemistry minors in secondary education are required to complete one year of physics before student teaching. Please visit the WMU Chemistry department website for further information.

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:

Dr. Steven Bertman Department of Chemistry (269) 387 – 2866 wmich.edu/chemistry/advising/	or	College of Education and Human Development (CEHD) wmich.edu/education/advising (269) 387 – 3474
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