

University Name: Winona State University

 Award: BS Degree: Chemistry: ACS Materials Chemistry

 Total Credits: 60

3 rd Year/Fall Semester		
Course No.	Course Name	Credits
CHEM 360	Chemical Information	2
CHEM 410	Polymer Chemistry	3
CHEM 412	Physical Chemistry I	3
CHEM 413	Physical Chemistry I Lab	1
CHEM 425 OR	Analytical Chemistry I	4
CHEM 450	Advanced Inorganic Chemistry	
Univ Req	Physical Development and Wellness	1
Semester Credits Total		17-18
Notes: MnTC Goals 1-10 must be met. If a goal area is not completed at the sending institution, it must be completed at WSU. A minimum of 40 credits of MnTC coursework is required to earn a degree. To remain at 60 credits, complete courses that meet two goal areas within Goals 5-10. WSU requires 2 credits of Physical Development & Wellness and 12 credits of upper-level intensive courses. Intensives are often included in major course requirements; check with your advisor. A minimum of 40 credits at the 300-400 level is required to earn a degree.		

4 th Year/Fall Semester		
Course No.	Course Name	Credits
CHEM 405	Biochemistry I	3
CHEM 406	Biochemistry I Lab	1
CHEM 425 OR	Analytical Chemistry I	4
CHEM 450	Advanced Inorganic Chemistry I	
Electives	400-level elective or MATH 312	3-4
Gen Ed	Goal Area course(s)	3-6
Semester Credits Total		14-18
Notes: 7 credits total electives required: 400-level CHEM, MATH 312		

3 rd Year/Spring Semester		
Course No.	Course Name	Credits
CHEM 411* OR	Synthesis and Characterization of Materials	2-3
CHEM 451**	Advanced Inorganic Chemistry II	
CHEM 414	Physical Chemistry II	3
CHEM 415	Physical Chemistry II Lab	2
CME 285	Properties of Materials	4
MATH 313	Differential Equations	3
MATH 314	Linear Algebra for Differential Equations	1
Semester Credits Total		15-16
Notes: *CHEM 411 offered springs of odd-numbered years only **CHEM 451 offered springs of even-numbered years only		

4 th Year/Spring Semester		
Course No.	Course Name	Credits
CHEM 411* OR	Synthesis and Characterization of Materials	2-3
CHEM 451**	Advanced Inorganic Chemistry II	
CHEM 475	Seminar in Chemistry	1
Electives	CHEM 400-level or MATH 312	3-4
CME 394	Polymer Synthesis and Characterization	3
Gen Ed	Goal Area course(s)	3-6
Univ Req	Physical Development and Wellness	1
Semester Credits Total		13-18
Notes: *CHEM 411 offered springs of odd-numbered years only **CHEM 451 offered springs of even-numbered years only 7 credits total electives required: 400-level CHEM, MATH 312		