

University Name: Winona State UniversityAward: BS Degree: Chemistry: ACS ChemistryTotal Credits: 60

3 <sup>rd</sup> Year/Fall Semester		
Course No.	Course Name	Credits
CHEM 360	Chemical Information	2
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	
Gen Ed	Goal Area 5-10 course(s)	6
Semester Credits Total		16
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 <sup>th</sup> 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	
CHEM 461*	Chemistry Research	1
CHEM	400-level Elective	2-3
Gen Ed	Goal Area 5-10 course(s)	3
Univ Req	Physical Development & Wellness	1
Semester Credits Total		15-16
Notes: *CHEM 430 can be taken in lieu of CHEM 461		

3 <sup>rd</sup> Year/Spring Semester		
Course No.	Course Name	Credits
CHEM 414	Physical Chemistry II	3
CHEM 415	Physical Chemistry II Lab	2
CHEM 426	Analytical Chemistry II OR	2-4
CHEM 451*	Advanced Inorganic Chemistry II	
CHEM 460**	Chemistry Research Proposal	1
CHEM	400-level Elective	2-3
Gen Ed	Goal Area 5-10 course	3
Univ Req	Physical Development & Wellness	1
Semester Credits Total		14-17
Notes: *CHEM 451 offered springs of even-numbered years only **CHEM 430 can be taken in lieu of CHEM 461 Eight credits of CHEM electives are required		

4 <sup>th</sup> Year/Spring Semester		
Course No.	Course Name	Credits
CHEM 426 OR	Analytical Chemistry II	2-4
CHEM 451*	Advanced Inorganic Chemistry II	
CHEM 461**	Chemistry Research	2
CHEM	400-level Elective	2-3
CHEM 475	Seminar in Chemistry	1
Gen Ed/Gen Elect	Goal Area 5-10 course(s)/General Electives	6
Semester Credits Total		13-16
Notes: *CHEM 451 offered springs of even-numbered years only **CHEM 430 can be taken in lieu of CHEM 461		