

University Name: Winona State University

Award: BS Degree: Computer Science: Applied Computer Science

Total Credits: 60

3 rd Year/Fall Semester		
Course No.	Course Name	Credits
CS 341	Data Structures	4
CS 385	Applied Database Management Systems	4
STAT 210	Statistics	3
BIOL 241	Basics of Life	4
Semester Credits Total		15
Notes: This transfer map reflects the completion of the Bioinformatics track. 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. Students must maintain good academic standing in the university and have a minimum of 2.50 GPA in the major and overall and a C or better in major coursework. 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.		

3 rd Year/Spring Semester		
Course No.	Course Name	Credits
CS 344	Introduction to Web Programming	3
CS 485	Advanced Database Systems	3
BIOL 242	Organismal Diversity	4
CHEM 212	Principles of Chemistry I	4
Univ Req	Physical Development/Wellness Elective	1
Semester Credits Total		15
Notes: Students are allowed to attempt CS courses at most 3 times including withdrawals. 18 SH of 300-400 level CS courses with at least 12 SH beyond the CS Core Requirements must be earned from WSU (not Common Market courses).		

4 th Year/Fall Semester		
Course No.	Course Name	Credits
CS 368	Introduction to Bioinformatics	4
CS 410	Software Engineering	4
CS 444	Human Computer Interaction	3
CHEM 213	Principles of Chemistry II	4
Univ Req	Physical Development/Wellness Elective	1
Semester Credits Total		16
Notes:		

4 th Year/Spring Semester		
Course No.	Course Name	Credits
CS 313	Networking and Telecommunications	4
CS	Computer Science Elective*	3
BIOL 310	Genetics	3
Gen Ed	Goal Area Course	3
Gen Ed	Goal Area Course or General Elective	1
Semester Credits Total		14
Notes: *3 credits of CS electives are required.		