



Bachelor of Science in Computer Science Degree Requirement Overlaps

Note: These are unofficial requirements for comparison purposes only

COURSE	Computer Science Concentrations				
	Computer Science	Computer Systems	Game Development	Applications	Software Engineering
CS 1000 Explorations in Computing	✓	✓	✓	✓	✓
CS 1121 Intro to Programming I	✓	✓	✓	✓	✓
CS 1122 Intro to Programming II	✓	✓	✓	✓	✓
CS 1131 Accelerated Intro to Programming	✓	✓	✓	✓	✓
CS 1142 Programming At HW/SW Interface	✓	✓	✓	✓	✓
CS 2311 Discrete Structures	✓	✓	✓	✓	✓
CS 2321 Data Structures	✓	✓	✓	✓	✓
CS 3000 Ethical Aspects of Computing	✓	✓	✓	✓	✓
CS 3141 Team Software Project	✓	✓	✓	✓	✓
CS 3311 Formal Models of Computation	✓	✓	✓	✓	✓
CS 3331 Concurrent Computing	✓	✓	✓	✓	✓
CS 3411 Systems Programming	✓	✓	✓	✓	✓
CS 3421 Computer Organization	✓	✓	✓	✓	✓
CS 3425 Intro to Database Systems	✓	✓	✓	✓	✓
CS 4121 Programming Languages	✓	✓	✓	✓	
CS 4130 Compiler Design and Optimization					
CS 4321 Intro to Algorithms	✓	✓	✓	✓	✓
CS 4331 Intro to Parallel Programming					
CS 4411 Intro to Operating Systems		✓			
CS 4425 Advanced Database Systems					
CS 4431 Computer Architecture					
CS 4461 Computer Networks		✓	✓		
CS 4471 Computer and Network Security		✓			
CS 4611 Foundations of Computer Graphics			✓		
CS 4732 Network Security					
CS 4811 Artificial Intelligence			✓		
CS 4821 Data Mining					
CS 4710 Model-driven Software					✓
CS 4711 Software Processes & Mgt					✓
CS 3712 Software Quality Assurance			✓		✓
CS 4760 User Interface Design & Implementation			✓		✓
CS 4791 Senior Software Eng Project I					✓
CS 4792 Senior Software Eng Project II					✓

**All degree programs also have a General Education Requirements component. Visit <http://www.mtu.edu/catalog/undergraduate/general-education/> for more information.*



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	Computer Science	Computer Systems	Game Development	Applications	Software Engineering
MA 1160/1161 Calculus with Technology I	✓	✓	✓	✓	✓
MA Elective 3xxx	✓				✓
MA 2330 Intro to Linear Algebra	✓	✓	✓	✓	✓
MA 2720 Statistical Methods or MA 3710 or MA3720	✓	✓	✓	✓	✓
MA Elective 3xxx or Science					✓
SAT 3343 Network Administration II OR SAT 3820 Wireless System Admin and Security		✓			
MIS 2000 IS/IT Management or OSM 3000		✓			
HU 3120 Technical and Scientific Communication	✓	✓	✓	✓	✓
Technical Elective Credits	12 cr	9 cr	6 cr	6 cr	9 cr
Science Credits	7 cr	7 cr	7 cr	7 cr	7 cr
Technology and Society (3 credits, select one of the following) HU3701, HU3710, HU3810, MA4945, SS3510, SS3511, SS3520, SS3530, SS3580, SS3581, SS3630, SS3640, SS3800, SS3801	✓	✓	✓	✓	
Husky Game Development Enterprise: ENT2950, ENT2960, ENT3950, ENT3960, ENT4900, ENT4910			3 cr		
Pick One: HU2642, HU2645, FA2050, FA2150, FA2222, FA2300, FA2445			✓		
CS 4xxx Elective	6 cr		3 cr	3 cr	