Midwestern State University
Fall 2021 CATALOG
BS in Computer Science Degree / Accelerated Master Program - Recommended 5-Year Plan
B.S. - 120 Credit Hours (25 Advanced UG Hours & 9 Graduate Hours Required)
Accelerated M.S. – Additional 21-24 Graduate Credit Hours

Fall Semester	Spring Semester
** 14-15 hours ** CMPS 1044 – Computer Science 1 MATH 1534 – Pre-Calculus ENGL 1143 – Academic Research and Writing Lab Science – 3-4 hours	** 14-15 hours ** CMPS 1063 – Data Structures & ADT CMPS 2084 – Introduction to Computer Architecture MATH 1634 – Calculus 1 Lab Science – 3-4 hours
** 16 hours ** CMPS 2143 – Object-Oriented Programming CMPS 2433 – Discrete Structures & Analysis MATH 1734 – Calculus 2 HIST 1133 – American History to 1865 Communications – 3 hours	** 15 hours ** CMPS 3013 – Advanced Structures & Algorithms CMPS 3023 – Logic Design Social & Behavioral Sciences – 3 hours HIST 1233 – American History since 1865 Cultural & Global Understanding – 3 hours
** 16 hours ** CMPS 4143 – Contemporary Programming Languages CMPS Elective – 3 hours PHYS 1624 – Mechanics, Wave Motion & Heat Language, Philosophy & Culture – 3 hours MATH 2753 or 3533 or 4243	** 16 hours ** CMPS 3233 – Theory of Computation CMPS Advanced Elective – 3 hours POLS 1433 – American Government PHYS 2644 – Electricity, Magnetism & Optics Creative Arts – 3 hours Student can apply for the accelerated program after meeting program requirements.
** 15 hours ** POLS 1333 – American Government CMPS Advanced Elective – 3 hours CMPS Advanced Elective – 3 hours **CMPS 5143 – Advanced Operating Systems** or **CMPS 5133 – Advanced Computer Architecture** **CMPS Graduate Elective** – 3 hours **or *CMPS 6903 Research Methods in CMPS** *The student starts file paper courses.	** 12-14 hours ** CMPS 4991 – Seminar CMPS Advanced Elective – 3 hours Electives – 3-5 hours **CMPS 5153 – Advanced Software Engineering** *CMPS 6901 Ind. Grad Study in CMPS *Student proposes the master project or thesis work
** 10-12 hours ** CMPS 5133 – Advanced Computer Architecture or CMPS 5143 – Advanced Operating Systems CMPS 5113 – Adv Prog Language Concepts CMPS Graduate Elective – 3 hours CMPS Graduate Elective – 3 hours or * CMPS 6901 Ind. Grad Study in CMPS *Student continues the master project or thesis work	** 10-12 hours ** CMPS 5243 – Algorithm Analysis CMPS Graduate Elective – 3 hours CMPS Graduate Elective – 3 hours CMPS Graduate Elective – 3 hours or *CMPS 6901 Ind. Grad Study in CMPS *Student presents final oral defense of master work

*Courses in bold are the ones that count towards the BS and the MS.