

Midwestern State University  
2014 – 2016 CATALOG  
BA in Computer Science Degree - Recommended 4-year Plan  
120 Credit Hours (39 Advanced)

Fall Semester	Spring Semester
<p><b>** 13 hours **</b>            CMPS 1044 – Computer Science 1            MATH 1233 – College Algebra            ENGL 1123 or 1143            HIST 1133 – American History to 1865</p>	<p><b>** 16 hours **</b>            CMPS 1063 – Data Structures &amp; ADT            CMPS 2084 – Introduction to Computer Architecture            MATH 1433 – Trigonometry            Communications – 3 hours            HIST 1233 – American History since 1865</p>
<p><b>** 16 hours **</b>            CMPS 2143 – Object-Oriented Programming            CMPS 2433 – Discrete Structures &amp; Analysis            POLS 1333 – American Government            Science Elective – 3 hours            Foreign Language – 4 hours</p>	<p><b>** 16 hours **</b>            CMPS 3013 – Advanced Structures &amp; Algorithms            CMPS 3023 – Logic Design            Science Elective – 3 hours            POLS 1433 – American Government            Foreign Language – 4 hours</p>
<p><b>** 15 hours **</b>            CMPS 4143 – Contemporary Programming Languages            CMPS Advanced Elective – 3 hours            CMPS Advanced Elective – 3 hours            Foreign Language – 3 hours            STAT 3573 – Probability &amp; Statistics</p>	<p><b>** 15 hours **</b>            CMPS 3233 – Theory of Computation            CMPS Advanced Elective – 3 hours            SCIE 2103 – Interdisciplinary Science Research            Humanities – 3 hours            Foreign Language – 3 hours</p>
<p><b>** 15 hours **</b>            CMPS 4103 – Introduction to Operating Systems            CMPS Advanced Elective – 3 hours            CMPS Advanced Elective – 3 hours            Creative Arts – 3 hours            Humanities – 3 hours (advanced recommended)</p>	<p><b>** 14 hours **</b>            CMPS 4113 – Software Engineering            CMPS Advanced Elective – 3 hours            CMPS 4991 – Seminar            ECON 1333 or 2333            Electives – 4 hours (advanced if needed)</p>

Some scholarships require the student enroll in a minimum of 15 credit hours.

Current CMPS Electives:

- CMPS 3433 – Introduction to Simulation
- CMPS 4123 – Database Management Systems
- CMPS 4143 – Topics in Contemporary Programming Languages
- CMPS 4233 – Artificial Intelligence
- CMPS 4433 – Computer Communications and Networks
- CMPS 4443 – Topics in Platform-Based Development
- CMPS 4453 – Computer Architecture
- CMPS 4553 – Topics in Computational Science
- CMPS 4663 – Topics in Computer Networking & Security
- CMPS 4773 – Internship in Computer Science