

Midwestern State University
2014 – 2016 CATALOG
BS in Computer Science Degree - Recommended 4-year Plan
120 Credit Hours (33 Advanced)

Fall Semester	Spring Semester
<p>** 15 hours ** CMPS 1044 – Computer Science 1 MATH 1534 – Pre-Calculus ENGL 1123 or 1143 Science Elective – 4 hours</p>	<p>** 15 hours ** CMPS 1063 – Data Structures & ADT CMPS 2084 – Introduction to Computer Architecture MATH 1634 – Calculus 1 Science Elective – 4 hours</p>
<p>** 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</p>	<p>** 15 hours ** CMPS 3013 – Advanced Structures & Algorithms CMPS 3023 – Logic Design ECON 1333 or 2333 HIST 1233 – American History since 1865 Component Area – 3 hours</p>
<p>** 16 hours ** CMPS 4143 – Contemporary Programming Languages CMPS Advanced Elective – 3 hours MATH 3533 or 3833 or 4243 PHYS 1624 – Mechanics, Wave Motion & Heat Language, Philosophy & Culture – 3 hours</p>	<p>** 16 hours ** CMPS 3233 – Theory of Computation CMPS Advanced Elective – 3 hours CMPS Advanced Elective – 3 hours PHYS 2644 – Electricity, Magnetism & Optics Component Area – 3 hours</p>
<p>** 14 hours ** CMPS 4103 – Introduction to Operating Systems CMPS Advanced Elective – 3 hours CMPS Advanced Elective – 3 hours POLS 1333 – American Government Electives – 2 hours (if needed)</p>	<p>** 13 hours ** CMPS 4113 – Software Engineering CMPS Advanced Elective – 3 hours CMPS 4991 - Seminar Creative Arts – 3 hours POLS 1433 – American Government</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 4213 – Introduction to Computer Graphics
- CMPS 4233 – Artificial Intelligence
- CMPS 4313 – Interactive 3D Graphics
- 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