

Midwestern State University  
2012 – 2014 CATALOG  
BA in Computer Science Degree - Recommended 4-year Plan  
120 Credit Hours (33 Advanced)

| Fall Semester   | Spring Semester   |
|---|---|
| <p><b>** 14 hours **</b><br/>           CMPS 1044 – Computer Science 1<br/>           MATH 1233 – College Algebra<br/>           ENGL 1113 – Rhetoric &amp; Composition<br/>           HIST 1133 – American History to 1865<br/>           Physical Education</p>   | <p><b>** 14 hours **</b><br/>           CMPS 1063 – Data Structures &amp; ADT<br/>           CMPS 2084 – Introduction to Computer Architecture<br/>           MATH 1433 – Trigonometry<br/>           ENGL 1123 - Rhetoric &amp; Composition<br/>           Physical Education</p>                  |
| <p><b>** 16 hours **</b><br/>           CMPS 2143 – Object-Oriented Programming<br/>           CMPS 2433 – Discrete Structures &amp; Analysis<br/>           Science Elective – 3/4 hours<br/>           POLS 1333 – American Government<br/>           Foreign Language – 4 hours</p>                      | <p><b>** 16 hours **</b><br/>           CMPS 3013 – Advanced Structures &amp; Algorithms<br/>           CMPS 3023 – Logic Design<br/>           Science Elective – 3/4 hours<br/>           POLS 1433 – American Government<br/>           Foreign Language – 4 hours</p>                           |
| <p><b>** 15 hours **</b><br/>           CMPS 4143 – Contemporary Programming Languages<br/>           CMPS Advanced Elective – 3 hours<br/>           SPCH 1133 or 1233<br/>           STAT 3573 – Probability &amp; Statistics<br/>           Foreign Language – 3 hours</p>                               | <p><b>** 15 hours **</b><br/>           CMPS 3233 – Theory of Computation<br/>           CMPS Advanced Elective – 3 hours<br/>           PSYC 1103 or SOCL 1133<br/>           Humanities – 3 hours<br/>           Foreign Language – 3 hours</p>   |
| <p><b>** 15 hours **</b><br/>           CMPS 4103 – Introduction to Operating Systems<br/>           CMPS Advanced Elective – 3 hours<br/>           CMPS Advanced Elective – 3 hours<br/>           HIST 1233 – American History since 1865<br/>           Humanities – 3 hours (advanced recommended)</p> | <p><b>** 15 hours **</b><br/>           CMPS 4113 – Software Engineering<br/>           CMPS Advanced Elective – 3 hours<br/>           CMPS 4991 – Seminar<br/>           Fine Arts – 3 hours<br/>           ECON 1333 or 2333 or 2433<br/>           Electives – 2 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