



## COMPUTER SCIENCE - SOFTWARE DEVELOPMENT OPTION

The following is a guide to graduation with a bachelor's degree in **COMPUTER SCIENCE – Software Development Option** by completing two years at St. Louis Community College and two years at MSU.

| Year 1 and Year 2 at StLCC  |   |  |
|---|---|--|
| <p><b>Note:</b> Only by taking several science courses in the first two years is it possible to complete a Computer Science degree within four years. At the same time, the decision to take those science courses during the first two years makes it impossible to complete either an Associate's degree from StLCC or the General Education Transfer Block in the two years. The courses shown below during the first two years at StLCC will make it possible to complete a Computer Science degree within four years, but the StLCC courses will neither complete an Associate of Arts degree, an Associate of Applied Science Degree, or the General Education Transfer Block. The schedule of the technical courses is important to a four-year plan, but the selection and schedule of the general education courses are flexible and are shown below as examples only.</p> |   |  |
|   | StLCC course  | MSU equivalent   |
| 3 hrs.  | ENG 101 College Composition 1 or ENG 103 Report Writing | ENG 110 Writing I (GenEd Foundations)  |
| 3 hrs.  | COM 107 Public Speaking                                 | COM 115 Public Speaking (GenEd Foundations)  |
| 5 hrs.  | MTH 160 and 170 or<br>MTH 185 Pre-Calculus Math         | MTH 138 Pre-Calculus   |
| 3 hrs.  | Lacking course  | CSC 130 The World of Computer Science  |
| 3 hrs.  | Any one of IS 153, IS 167, or IS 187                    | CSC 131 Computational Thinking   |
| 3 hrs.  | PSY 200 General Psychology                              | PSY 121 Introductory Psychology  |
| 2<br>courses,<br>6 hrs.   | (many options)  | One courses that meet GenEd Humanities<br>and One course that meets Gen Ed The Arts                          |
| 3 hrs.  | Any one of HST 101, or HST 102                          | HST 121 Survey of US History to 1877 or<br>HST 122 Survey of US History since 1877<br>(GenEd Public Affairs) |
| 3 hrs.  | MTH 212 Discrete Mathematics                            | MTH 215 Discrete Mathematics   |
| 3 hrs.  | PSC 101 or PSC 103                                      | PLS 101 Am Dem. & Citizenship (GenEd Public Affairs)   |
| 6 hrs.  | (many options)  | Two courses that meet GenEd Public Affairs   |
| 3 hrs.  | ECO 152 Principles of Microeconomics                    | ECO 165 Principles of Microeconomics   |
| 4 hrs.  | (many options)  | A course that meets GenEd Life Sciences  |
| 15 hrs.   | (many options)  | Minor courses  |
| TOTAL<br>63 hrs.  |   |  |

To select specific courses where there are options, use the “New General Education Worksheet,” [http://www.missouristate.edu/assets/generaleducation/GenEdWorksheet\\_new.pdf](http://www.missouristate.edu/assets/generaleducation/GenEdWorksheet_new.pdf) and “How Credit Transfer,” <http://www.missouristate.edu/admissions/howcredittransfers.htm>

| Years 3 and 4 at MSU                   |           |                                   |           |
|--|-----------|-----------------------------------|-----------|
| First fall semester                    | Hours     | First spring semester             | Hours     |
| CSC 232 Data Structures                | 4         | Gen Ed Physical Science Elective  | 5         |
| General Education Pub Affairs Elective | 3         | Computer Science Elective         | 3         |
| CSC 365 Internet Programming           | 3         | CSC 344 Computer Sys Fundamentals | 3         |
| Computer Science Elective              | 3         | CSC 335 Database Sys. Concepts    | 3         |
| Science Elective                       | 3         |                                   |           |
| <b>Total hours</b>                     | <b>16</b> | <b>Total hours</b>                | <b>14</b> |

| Years 3 and 4 at MSU               |           |   |           |
|------------------------------------|-----------|---|-----------|
| Second fall semester               | Hours     | Second spring semester                                | Hours     |
| Computer Science Elective          | 3         | One of MKT 350, PSY 305, MGT 340, PSY 481, or COM 315 | 3         |
| CSC 455 Software Assurance         | 3         | CSC 450 Software Engineering                          | 4         |
| ENG 321 Writing II                 | 3         | CSC 482 Seminar in Computer Science                   | 1         |
| CSC 338 Parallel & Dist. Computing | 2         | Computer Science Elective                             | 6         |
| CSC 388 Intro to Secure Computing  | 2         |   |           |
| <b>Total hours</b>                 | <b>13</b> | <b>Total hours</b>                                    | <b>14</b> |

### Important resources for COMPUTER SCIENCE – Computer Science Option majors

MSU departmental office  
Department of Computer Science  
Cheek Hall 203  
417-836-4157

Email: [ComputerScience@missouristate.edu](mailto:ComputerScience@missouristate.edu)  
[www.cs.missouristate.edu](http://www.cs.missouristate.edu)

MSU transfer advisor  
Dr. Ajay Katangur  
Department Head  
417-836-4157

[ajaykatangur@missouristate.edu](mailto:ajaykatangur@missouristate.edu)

Specific websites:

<https://computerscience.missouristate.edu/undergraduate/software-development-flowchart.htm>  
[http://www.missouristate.edu/registrar/catalog/dept\\_cs.html](http://www.missouristate.edu/registrar/catalog/dept_cs.html)

### Online resources for prospective transfer students

MSU catalog  
General transfer information  
Transfer equivalency guide

[www.missouristate.edu/catalog](http://www.missouristate.edu/catalog)  
[www.missouristate.edu/admissions/transfer](http://www.missouristate.edu/admissions/transfer)  
[www.missouristate.edu/admissions/collcredit.htm](http://www.missouristate.edu/admissions/collcredit.htm)

**For assistance with admission and general questions**

Lori Day  
Transfer Student Recruiter-Evaluator  
417-836-5517  
[LoriDay@MissouriState.edu](mailto:LoriDay@MissouriState.edu)

*This document was prepared by the MSU Admissions Office, in conjunction with MSU's Department of Computer Science.  
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