

Macomb Community College:  
Associate of Applied Science  
Information Technology – Programming

Wayne State University:  
Bachelor of Science in Computer Science

Articulated Program: Students who have declared this program on their student record are following a formal agreement between Wayne State University and Macomb Community College which will allow for required courses and credit hours to be applied toward the major at Wayne State University.

**Macomb Coursework – Before Transfer:**

Core Requirements for AAS Information Technology - Programming	46 Hrs
ITCS 1010: Computer & Information Processing Principles	4
ITCS 1140: Introduction to Program Design & Development	4
ITCS 1170: Database Design & Implementation with SQL & XML	4
ITWP 1000: Introduction to Web Programming	3
BUSN 1010: Business Enterprise	3
BCOM 2070: Technical Business Communication & Project management Principles	3
ITWP 2400 - Web Programming with XML	3
ITNT 1500 - Principles of Networking	4
ITCS 2830 - Applications Implementation & Testing	4
<b>C++ Track:</b>	
ITCS 2530: C++ Programming 1	4
ITCS 2550: C++ Programming 2 (Equivalent to WSU's CSC 2110/2111)	3
ITCS 2000 - Game Programming in Direct X with C++	4
<b>Select one:</b> ITCS 2140 <i>or</i> ITCS 2520	3

General Education Requirement	30-37 Hrs
Note: this program follows the Michigan Transfer Agreement (MTA). Students who complete the MTA will satisfy general education requirements for Wayne State University. Students who do not receive the MTA endorsement must still satisfy all general education requirements for Wayne State University. Meet with a MCC academic advisor or counselor for course planning or for additional information visit: <a href="http://macomb.edu/transfer">macomb.edu/transfer</a>	
<b>English Composition—2 courses:</b> ENGL 1180 <i>or</i> ENGL 1210	3-4 hrs
BCOM 2050 Business Communications	4 hrs
<b>Humanities &amp; Fine Arts—2 courses :</b> Any ARAB; ARTT 1620, 1625, 2650, 2660; Any CHIN; ENGL 1730, 2410, 2420, 2510, 2520, 2600, 2610, 2640, 2710, 2720, 2730, 2800, 2810, 2850; Any FREN; Any GRMN; Any HUMN; INTL 2000, 2300, 2800; Any ITAL; MUSC 1030, 1050, 1060, 1070, 1160, 1170, 2080, 2180, 2710, 2720; Any PHIL; Any SPAN*	6-7 hrs
<b>Mathematics—1 course:</b> MATH 1760	4 hrs
<b>Natural Sciences with at least 1 Lab—2courses:</b> <b>Select one course from:</b> PHYS 2220 Analytical Physics 1 PHYS 2230 Analytical Physics 2	10 hrs
<b>Social Sciences—2 courses from different subject areas:</b> Any ANTH; any GEOG; any HIST; INTL 2010, 2500, 2700; any POLS; any PSYC; any SOCY	6-7 hrs
An additional course from the above lists may need to be taken to reach to 30 credit minimum per MTA requirements. Students may also meet the WSU general education and proficiency requirements without following the MTA plan. These students will need to speak to a WSU academic advisor to have their transcripts evaluated.	

Additional Requirements to be taken at Macomb or WSU	15 Hrs
MATH 1770 Analytic Geometry & Calculus 2	4
MATH 2760 Analytic Geometry & Calculus 3	4
MATH 2000 Introduction to Linear Algebra	3
MATH 2200 (CSC 1500/1501 @ WSU)	4

### Wayne State University Coursework – After Transfer:

Computer Science Major Requirements for BS	41 Hrs
BE 2100: Basic Engineering III: Probability and Statistics in Engineering	3
CSC 2200: Computer Science II	3
CSC 2201: Computer Science II – Lab	1
CSC 3010: Computer Ethics	3
CSC 3020: Java Programming	3
CSC 3100: Computer Architecture and Organization	3
CSC 3101: Computer Architecture and Organization – Lab	3
CSC 3110: Algorithm Design and Analysis	1
CSC 4110: Software Engineering	3
CSC 4111: Software Engineering - Lab	1
CSC 4420: Computer Operating Systems	3
CSC 4421: Computer Operating Systems - Lab	1
CSC 4500: Introduction to Theoretical Computer Science	3
CSC 4710: Introduction to Database Management Systems	3
CSC 4996: Senior Project and Computer Ethics	3
CSC 4997: Senior Project Lab	1
ENG 3060 Technical Communication II	3

Minimum Macomb College Credits = 91

Minimum Wayne State University Credits = 41

**Total Credits for Bachelor of Science in Computer Science = 132**

### Important Information:

1. All content is for informational purposes and is designed to be used as a tool to assist students with transfer information, but should not be used for self-advising. Meet with an academic advisor to ensure all requirements are being met for this articulation.
2. MCC and WSU reserve the right to make any necessary changes to courses, provisions, or transfer requirements without notice.
3. It is the responsibility of the student to be aware of changes that affect their articulation plan. It is strongly recommended that you visit with an academic advisor both at MCC and WSU simultaneously each semester throughout the course of the program.
4. For further information, please contact Colleen McKenney via telephone at (313) 577-2477, or email to [cmckenney@wayne.edu](mailto:cmckenney@wayne.edu).

Revised: 8/13/18