Articulation Agreement

Between

Wayne State University & Oakland Community College

Linking OCC's

Computer Information Systems Department

With Wayne State's

Department of Computer Science

This agreement made this 2nd day of July, 2008 is by and between Wayne State University (WSU) and Oakland Community College (OCC).

Wayne State University and Oakland Community College wish and intend by this Agreement to set forth the terms and conditions of engaging in an educational program, to facilitate the transfer of students who earn an Associate's Degree or are registered at OCC in the Computer Information Systems program to complete a BACS, BSCS, or BAIST degree from Wayne State University, Department of Computer Science.

Article I

Agreement on Program Integrity

WSU and OCC will maintain the integrity of their separate programs and enter into this agreement as equal and cooperating partner institutions.

Article II

Agreement on Principle

This agreement between WSU and OCC is intended to provide a smooth and seamless curriculum transition for Oakland students that transfer to Wayne State to earn a BACS, or BSCS, or BAIST degree. The agreement is designed for students who follow a prescribed plan of study leading to an Associate's Degree. The credits transferred from the Associate Degree Program, as outlined in the appendices to this document, will be included in the total credit hours required for the WSU baccalaureate degree. All other standard admission, curriculum, and graduation requirements of OCC and WSU must also be met.

Article III

Agreement of Program Articulation

OCC and WSU agree that any student, who has earned the aforementioned associate degree in any of the approved programs, may transfer the credits from their program to the College of Liberal Arts and Sciences at WSU toward the BACS, or BSCS, or BAIST degree. The Bachelor's degree requirements for students who follow this articulation agreement are as follows:

See attachments A-C for each degree program and requirements.
Article IV
Agreement on Student Support

WSU and OCC agree to track the progress and success of articulation participants. Responsibility for this tracking rests with the College Liberal Arts and Sciences and the Department of Computer Science at Wayne State. A mechanism will be developed to track and report on OCC students' use of this Articulation.

Article V
Agreement on Communication

OCC and WSU agree to cooperate in communication with each other and with common and respective publics concerning the established relationships between the two institutions. Communication will include the development of various kinds of publications to inform those who might benefit from the opportunities provided by this articulation agreement. The appropriate faculty and staff in both institutions will share the information in this agreement with interested and qualified students. Both institutions will provide academic counseling to students and prospective students. Joint efforts in marketing the program and student recruiting will be pursued.

WSU and OCC further agree to communicate annually concerning curriculum changes that may affect the agreed upon program relationship. Responsibility for communication related to this agreement will rest with the individuals appointed under Article VI.

Article VI
Maintenance and Review Body Procedures

Each institution will appoint one or more faculty administrators to act as agents for the implementation of this agreement, and to communicate changes to respective faculty members, advisors, and others to whom the information is pertinent. Responsibility for the oversight of this agreement rests with the Office of the Registrar at OCC and with the Chair of the Computer Science Department at WSU.

Article VII Agreement
Regarding Independent Relationship

In the performance of their respective duties and obligations under this Agreement, each party is an independent contractor and neither is the agent, employee, or servant of the other, and each is responsible only for its own conduct. Each institution is solely responsible for the development and design of its own curriculum. Changes on the part of either party will/may necessitate review of this document.
Article VIII
Agreement not to Discriminate

Each party covenants and agrees that it does not discriminate on the basis of race, creed, color, age, sex, or national origin and it complies with the Americans with Disabilities Act of 1990, and that it does not discriminate on the basis of "physical or mental handicap" except where there exists a bona fide academic qualification.

Each party shall be separately responsible for compliance with all federal and state laws, including nondiscrimination laws and all applicable sections of the Michigan Handicapper's Civil Rights Act. Illegal discrimination by either party may be considered a material breach of this Agreement.

Article IX
Entire Agreement

This Agreement constitutes the entire agreement between the parties, and all prior discussions, agreements, and understandings, whether verbal or in writing, are hereby merged into this Agreement.

Article X
Amendment/Modification/or Termination Provision

OCC and WSU agree to the terms of this Agreement. No amendment or modification to this Agreement, including any modification or amendment of this paragraph, shall be effective unless the same is in writing and signed by all parties or their Successors.

This cooperative arrangement will be in effect immediately upon signature and will be subject to review for continuance after a period of three (3) years. Renewal will be for three years unless either party notifies the other in writing by December 31 of the year preceding the last year of the agreement of their intention to renegotiate or of non-renewal of this agreement.

This Agreement is effective immediately upon program approval by WSU and OCC and shall remain in effect unless terminated by either party providing six months advance written notice. In the event that this Agreement must be terminated, all students currently enrolled in the program shall be allowed to complete the program as described.
Articulation Agreement

Between
Wayne State University & Oakland Community College
Linking OCC’s
Computer Information Systems Department
With Wayne State’s
Department of Computer Science

Signatories for Wayne State University:  

Dr. Nancy S. Barrett  
Provost & Senior V.P. for Academic Affairs

Dr. Robert Thomas  
Dean, College of Liberal Arts and Sciences

Dr. Farshad Fotouhi  
Chairperson, Department of Computer Science

Signatories for Oakland Community College:

Dr. Timothy R. Meyer  
Chancellor

Dr. Mary Cathey Maze  
Interim Vice Chancellor, Academic and Student Affairs

Dr. Patricia A. Dolly  
President, Auburn Hills Campus

Tahir B. Khan  
Interim Dean of Technology

Date: ___________________________  

Date: ___________________________
# Computer Science Requirements - Bachelor of Science

## Mathematics Requirements

<table>
<thead>
<tr>
<th>WSU Courses</th>
<th>OCC Courses</th>
<th>Combined CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 210: Calculus I</td>
<td>MAT 170: Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MAT 220: Calculus II</td>
<td>MAT 170: Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MAT 210: Probabilities &amp; Statistics for Teachers</td>
<td>must be taken at WSU</td>
<td>4</td>
</tr>
<tr>
<td>MAT 220: Elementary Linear Algebra</td>
<td>MAT 210: Linear Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

**Number of Credit Hours**: 15

## Computer Science Courses Requirements

<table>
<thead>
<tr>
<th>WSU Courses</th>
<th>OCC Courses</th>
<th>Combined CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 1500: Introduction to Computer Science (Lecture and Lab)</td>
<td>CSE 1500: Introduction to Programming (Lecture and Lab)</td>
<td>4</td>
</tr>
<tr>
<td>CSE 2110: and CSE 2111 Computer Science I: Lecture and Lab</td>
<td>CSE 2110: and CSE 2111 Computer Science I: Lecture and Lab</td>
<td>4</td>
</tr>
<tr>
<td>CSE 2200: and CSE 2201 Computer Science II: Lecture and Lab</td>
<td>CSE 2200: and CSE 2201 Computer Science II: Lecture and Lab</td>
<td>4</td>
</tr>
<tr>
<td>CSE 3100: and CSE 3101 Computer Architecture and Organization: Lecture and Lab</td>
<td>CSE 3100: and CSE 3101 Computer Architecture and Organization: Lecture and Lab</td>
<td>4</td>
</tr>
<tr>
<td>CSE 3110: Algorithm Design and Analysis</td>
<td>CSE 3110: Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CSE 4110: and CSE 4111 Introduction to Software Engineering: Lecture and Lab</td>
<td>CSE 4110: and CSE 4111 Introduction to Software Engineering: Lecture and Lab</td>
<td>4</td>
</tr>
<tr>
<td>CSE 4210 and CSE 4211 Operating Systems: Lecture and Lab</td>
<td>CSE 4210 and CSE 4211 Operating Systems: Lecture and Lab</td>
<td>4</td>
</tr>
<tr>
<td>CSE 4010: Theory of Computer Science</td>
<td>CSE 4010: Theory of Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CSE 4981: and CSE 4982 Senior Project and Computer Science Seminar (Lecture and Lab)</td>
<td>CSE 4981: and CSE 4982 Senior Project and Computer Science Seminar (Lecture and Lab)</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong>: 46</td>
<td></td>
<td>17-20</td>
</tr>
</tbody>
</table>

**Minimum GPA**: 3.0

**Minimum grade of "C" is required in CSE 1500, 2110, 2200, 3100, 4010, 4110, 4210, 4981, 5110, 5200, and 5210.**

### Minimum Credits
- CSE 1500 credit earned at WSU: 4 credits
- Total CSE credit for a BS in Computer Science: 44 credits
- Total credits for a BS in Computer Science, including math credits: 121 credits
- Total number of OCC credits that will apply toward a WSU degree: 44 credits

**All Computer Science students are required to see their advisor once a year.**
## Computer Science Requirements – Bachelor of Arts

### Mathematics Requirements

<table>
<thead>
<tr>
<th>WSU Courses</th>
<th>WSU CR</th>
<th>OCC Courses</th>
<th>OCC CR</th>
<th>Combined CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 2030 Calculus I</td>
<td>4</td>
<td>MAT 1730 Calculus I</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>MAT 3210 Probability and Statistics</td>
<td>4</td>
<td>must be taken at WSU</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td><strong>Number of Credit Hours</strong></td>
<td><strong>8</strong></td>
<td></td>
<td></td>
<td><strong>8</strong></td>
</tr>
</tbody>
</table>

### Computer Science Course Requirements

<table>
<thead>
<tr>
<th>WSU Courses</th>
<th>WSU CR</th>
<th>OCC Courses</th>
<th>OCC CR</th>
<th>Combined CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 1100 and CSC 1101 Problem Solving and Programming (Lecture and Lab)</td>
<td>4</td>
<td>CSC 1100 Introduction to Software Engineering (Lecture)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>CSC 1900 and CSC 1901 Fundamental Structures in Computer Science (Lecture and Lab)</td>
<td>4</td>
<td>must be taken at WSU</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>CSC 2110 and CSC 2111 Computer Science I (Lecture and Lab)</td>
<td>4</td>
<td>CSC 2202 Object-Oriented Programming (C++)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>CSC 2200 and CSC 2201 Computer Science II (Lecture and Lab)</td>
<td>4</td>
<td>must be taken at WSU</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>CSC 3100 and CSC 3101 Computer Architecture and Organization (Lecture and Lab)</td>
<td>4</td>
<td>must be taken at WSU</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>CSC 4110 and CSC 4111 Introduction to Software Engineering (Lecture and Lab)</td>
<td>4</td>
<td>must be taken at WSU</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>CSC 4200 and CSC 4201 Operating Systems (Lecture and Lab)</td>
<td>4</td>
<td>must be taken at WSU</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>CSC 4906 and CSC 4907 Senior Project and Computer Ethics (Lecture and Lab)</td>
<td>4</td>
<td>must be taken at WSU</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td><strong>1 additional CSC course (3 cr. each) at the 3000- or 4000-level (excluding CSC 4906 and 4907)</strong></td>
<td>3</td>
<td>must be taken at WSU</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>3 additional CSC courses (3 cr. each) at the 3000- or 4000-level (excluding CSC 4906 and 4907)</strong></td>
<td>9</td>
<td>The following CSC courses could be used for elective credit: CSC 1910, 2100, 2115, 2717, 2900, 2905, 2995, 2996, and 2994</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td><strong>Number of Credit Hours</strong></td>
<td><strong>44</strong></td>
<td><strong>17</strong></td>
<td><strong>44</strong></td>
<td></td>
</tr>
</tbody>
</table>

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### Minimum GPA 2.0

Minimum grade of "C" is required in CSC 1900, 2100, 2101, 2115, 2905, 2995, 2996, 2997, 2998, 3900, 2901, 2119, 2115, 2200 and 2201.

**Minimum CSC credit earned at WSU is**
- **34** credit hours.
- **4** credit hours.
- **31** credit hours.
- **5** credit hours.
- **54** credit hours.

**Total number of OCC credits that will apply toward a WSU degree**

All computer science students are required to see their advisor once a year.
# COMPUTER SCIENCE REQUIREMENTS

## BACHELOR OF ARTS IN INFORMATION SYSTEMS TECHNOLOGY

### WISU Courses | WISU CR | OCC Courses | OCC CR | Combined CR
--- | --- | --- | --- | ---
MATH 115 or 117 | 4 | MATH 171 or equivalent | 4 | 4
MATH 170 Calculus 1 | 4 | MATH 170 Calculus 1 | 4 | 4

**Number of Credit Hours:** 8

### WISU Courses | WISU CR | OCC Courses | OCC CR | Combined CR
--- | --- | --- | --- | ---
CSC 200 and CSC 201-202 Principles of Programming | 6 | CSC 110 Introduction to Software Engineering | 3 | 3
CSC 205 and CSC 206-207 Fundamentals of Computer Science | 4 | must be taken at WISU | 4 | 4
CSC 206 and CSC 207 Computer Science I: Lecture and Lab | 4 | must be taken at WISU | 4 | 4
CSC 208 and CSC 209 Computer Architecture and Organization: Lecture and Lab | 4 | must be taken at WISU | 4 | 4
CSC 210 Introduction to Information Technology | 3 | CSC 106 and CSC 211 Introduction to Data Structures & Algorithm Development | 3 | 3
CSC 210 and CSC 211 Introduction to Software Engineering | 3 | must be taken at WISU | 3 | 3
CSC 220 and CSC 221 Operating Systems | 3 | must be taken at WISU | 3 | 3
CSC 220 and CSC 221 Operating Systems Lecture and Lab | 3 | must be taken at WISU | 3 | 3
CSC 222 and CSC 223 Senior Project | 3 | must be taken at WISU | 3 | 3
CSC 224 and CSC 225 System Design and Management | 3 | must be taken at WISU | 3 | 3
CSC 225 Introduction to Systems Design and Management | 3 | must be taken at WISU | 3 | 3
CSC 227 Principles of Risk Technology | 3 | must be taken at WISU | 3 | 3

**Number of Credit Hours:** 33

### WISU Courses | WISU CR | OCC Courses | OCC CR | Combined CR
--- | --- | --- | --- | ---
SOC 201 Principles of Microeconomics | 3 | SOC 201 Principles of Microeconomics | 3 | 3
ACC 207 Intermediate Accounting Theory | 3 | ACC 207 Intermediate Accounting Theory | 3 | 3
ACC 253-255 Principles of Financial Accounting | 3 | must be taken at WISU | 3 | 3
FIN 320 Business Finance | 3 | must be taken at WISU | 3 | 3
MGT 2100 Business Management | 3 | MGT 2100 Business Management | 3 | 3

**Number of Credit Hours:** 15

### WISU Courses | WISU CR | OCC Courses | OCC CR | Combined CR
--- | --- | --- | --- | ---
SOC 201 Principles of Microeconomics | 3 | SOC 201 Principles of Microeconomics | 3 | 3

**Number of Credit Hours:** 3

### Minimum GPA: 2.0

Students must maintain a GPA of 2.0 in all courses required for the degree.

### Minimum WISU GPA: 2.0

Students must maintain a minimum GPA of 2.0 in all courses with grades of A, B, C, D, and F.

### Total Credit Hours Required:

Total credit hours required for the B.A. in Information Systems Technology is 120 credits.

### Additional Requirements:

- Completion of a minor in Computer Science or related field.
- Completion of a minor in Business Administration or related field.
- Completion of a minor in Mathematics or related field.
- Completion of a minor in Computer Science, including math and business courses.
- Completion of a minor in Business Administration, including math and business courses.

**All Computer Science students are required to see their advisor once a year.**