ARTICULATION AGREEMENT
IN COMPUTER SCIENCE
BETWEEN
JAMESTOWN COMMUNITY COLLEGE
AND
ST. BONAVENTURE UNIVERSITY
2011

PURPOSE OF AGREEMENT
This document establishes a transfer articulation agreement between Jamestown Community College and St. Bonaventure University. Its purpose is to afford students the opportunity to pre-plan their college careers, and to facilitate the transfer process from the Associate in Science (A.S.) in Computer Science degree program at Jamestown Community College to the Bachelor of Science (B.S.) in Computer Science degree program at St. Bonaventure University.

GENERAL GUARANTEE OF ADMISSION AND STANDING
Students who graduate from Jamestown Community College with the A.S. Computer Science degree are guaranteed acceptance into the B.S. Computer Science degree program at St. Bonaventure University provided they have a minimum Jamestown Community College cumulative grade point average of 2.5. Students who transfer 60 or more credit hours to St. Bonaventure University are guaranteed full junior standing.

GENERAL GUARANTEE OF OPPORTUNITY TO GRADUATE
Students who graduate from Jamestown Community College having earned a minimum grade of C for at least 39 credit hours from among the courses listed in Appendix A of this agreement are guaranteed the opportunity to earn the B.S. Computer Science degree with four semesters of normal coursework at St. Bonaventure University.

Students who are admitted to St. Bonaventure University without having earned the A.S. degree but having earned a minimum grade of C for at least 54 Jamestown Community College credit hours from among the courses listed in Appendix A plus Appendix B of this agreement are also guaranteed the opportunity to earn the B.S. Computer Science degree with four semesters of normal coursework at St. Bonaventure University.

Transferred coursework must include the following at Jamestown Community College in order to graduate from St. Bonaventure University in four semesters: 1) CSC 1590/1600, and 2) MAT 1710.

A student may transfer a course in which less than a C was earned only if the cumulative GPA at the time of enrollment is at least 2.5. For students whose cumulative GPA is below 2.5 at the time of enrollment, St. Bonaventure University requires a minimum grade of C for a course to transfer. To earn a baccalaureate degree, students must complete at least 60 undergraduate hours and at least half of the major requirements at St. Bonaventure University.
A separate agreement allows students who are enrolled full-time at Jamestown Community College to take one course free of charge at St. Bonaventure University each semester.

PROMOTION OF AGREEMENT
Both parties have the right to use this agreement and the name of Jamestown Community College and St. Bonaventure University in all promotional activities including college catalogs and recruitment or advisement activities.

PROVISION FOR CHANGES IN POLICIES OR CURRICULA
Proposed changes in policies or curricula by either party should be communicated in writing to the other party.

EFFECTIVE DATE AND PROVISION FOR CANCELLATION
This agreement goes into effect when signed by all individuals listed below.
Either party may independently cancel this agreement by notifying the other party in writing no less than one year before the intended date of cancellation.

APPROVED FOR JAMESTOWN COMMUNITY COLLEGE BY:

______________________________
Marilyn A. Zagora
Vice President and Dean of Academic Affairs

Date

______________________________
Robert A. Phillips
Transfer Articulation Coordinator

Date

APPROVED FOR ST. BONAVENTURE UNIVERSITY BY:

______________________________
Michael J. Fischer
Vice President for Academic Affairs

______________________________
Wolfgang Natter
Dean, School of Arts and Sciences

Date

Date
## APPENDIX A
### ST. BONAVENTURE UNIVERSITY/JAMESTOWN COMMUNITY COLLEGE COURSE EQUIVALENCIES

<table>
<thead>
<tr>
<th>SBU COURSE</th>
<th>CREDIT HOURS</th>
<th>JCC EQUIVALENT COURSE</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Computer Science</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 131 Computer Science I</td>
<td>4</td>
<td>CSC 1590 Computer Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS 132 Computer Science II</td>
<td>4</td>
<td>CSC 1600 Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CS 231 Computer Organization</td>
<td>4</td>
<td>CSC 2670 Computer Organization</td>
<td>4</td>
</tr>
<tr>
<td>CS 232 Algorithms and Data Structures</td>
<td>3</td>
<td></td>
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<tr>
<td>CS 331 Principles of Programming Languages</td>
<td>3</td>
<td></td>
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<tr>
<td>CS 332 Theory of Computation</td>
<td>3</td>
<td></td>
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<tr>
<td>CS 490 Software Engineering</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS Electives</td>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td></td>
<td></td>
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<tr>
<td>MATH 151 Calculus I</td>
<td>4</td>
<td>MAT 1710 Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 207 Discrete Mathematics I</td>
<td>3</td>
<td>MAT 1670 Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 208 Discrete Mathematics II</td>
<td></td>
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<td></td>
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<tr>
<td><strong>Foreign Language</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>One course at the 202 level or above(^1)</td>
<td>3</td>
<td>One course at the 2520 level or above(^1)</td>
<td>3-4</td>
</tr>
<tr>
<td><strong>Clare College Requirements(^2)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLAR 101 The Intellectual Journey</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLAR 110/111 Composition and Critical Thinking</td>
<td>6</td>
<td>ENG 1510/1530 English Composition I/II</td>
<td>6</td>
</tr>
<tr>
<td>CLAR 207 The Catholic- Franciscan Heritage</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>CLAR 302 Inquiry in the Natural World</td>
<td>4</td>
<td>Any 4-credit laboratory course in BIO, CHE, GLG, or PHY</td>
<td>4</td>
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<tr>
<td>CLAR 304 The Good Life</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>CLAR 401 The University Forum</td>
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</tbody>
</table>

\(^1\)The SBU School of Arts and Sciences requires all majors to complete a foreign language course at the 202 level or higher. Students not prepared to begin at this level will need to take additional courses in the language which count as general electives.

\(^2\)Any student who earns an Associate in Arts or Associate in Science degree prior to enrollment at SBU will have the following requirements waived: CLAR 103, 105, 206, 208, 209.
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CLAR 110/111 Composition and Critical Thinking</td>
<td>6</td>
</tr>
<tr>
<td>CLAR 103 Foundations of the Western World</td>
<td>3</td>
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<tr>
<td>CLAR 105 Inquiry in the Social World</td>
<td>3</td>
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<tr>
<td>CLAR 206 Foundational Religious Texts of the World</td>
<td>3</td>
</tr>
<tr>
<td>CLAR 107 World Views</td>
<td>3</td>
</tr>
<tr>
<td>CLAR 208 World Views</td>
<td>3</td>
</tr>
<tr>
<td>CLAR 209 Arts and Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

1. ENG 1510/1530 English Composition I/II
2. Any 3-credit world or American history course
3. Any 3-credit course in ECO, POL, PSY, or SOC
4. Any one of the following:
   - Any 3-credit REL course
   - ANT 1530 Comparative Religion
   - ANT/HIS/REL 2570 History of World Religions
   - ENG 2860 Literature of the Bible
   - PHL 2550 Philosophy of Religion
5. Any one of the following:
   - ANT 1520 Introduction to Cultural Anthropology
   - ANT 2510 Peoples and Cultures of the Americas
   - ANT 2520 People/Cultures of World
   - ANT 2540 Social Anthropology
   - POL 1520 World Politics
   - POL 2860 European Union
   - SOC 2580 Minorities in American Society
6. Any one of the following:
   - Any 3-credit course in ART, MUS, THE
   - ENG 2510 Masterpieces/World Literature I
   - ENG 2520 Masterpieces/World Literature II
   - ENG 2550 American Literature I
   - ENG 2560 American Literature II
   - ENG 2610 British Literature I
   - ENG 2620 British Literature II
   - ENG 2650 Award Winning Young Adult Literature
   - ENG 2830 Shakespeare
   - INT 2530 Humanities I
CLAR 302 Inquiry in the Natural World 4
INT 2540 Humanities II
Any 4-credit laboratory course in BIO, CHE, GLG, or PHY 4

1 The CLAR 110 requirement at St. Bonaventure University is waived for JCC students who place out of ENG 1510 and transfer ENG 1530 to SBU.