TRANSFER AGREEMENT
Between
Marian University
and
Ivy Tech Community College Statewide

For Transfer of Ivy Tech Community College’s Associate of Science in Computer Science to Marian University
Bachelor of Science in Computer Science

Statement of Purpose
The purpose of this transfer agreement is to provide a basis for a cooperative relationship between Marian University and Ivy Tech Community College (ITCC) to benefit students who desire to complete a bachelor’s degree. The intent is for ITCC students completing the AS degree program to move seamlessly to the BS degree program.

Transfer Agreement
Ivy Tech Community College graduates from the appended Associate of Science degree program of study in Computer Science, from any Ivy Tech campus, may transfer and apply a minimum of 60 credit hours from that completed degree to the requirements for Marian University’s Bachelor of Science degrees in Computer Science.

Addendum One: Ivy Tech Community College Curriculum
   Transfer General Education Core Requirements
   Associate of Science Course Requirements

Addendum Two: Course Requirements for Transfer Details
The course requirements for this transfer agreement, including remaining courses required at the accepting college or university (transfer institution) to fulfill the baccalaureate degree requirements. If listed, please include a sample semester sequence.

Additionally, under the terms of this agreement:

1. Ivy Tech students are eligible for admission with junior standing to Marian University provided:
   a. The student has submitted a complete application for admission to Marian University.
   b. A course grade of “C-” or better must be earned to be accepted for transfer.
   c. The student has a 2.0 or higher grade point average on a 4 point scale.

2. As ITCC graduates complete the credit hour requirements for the award of the BS degrees in Computer Science, they must meet the graduation requirements as approved by Marian University at the time of the student’s admission to the appropriate degree program.

3. Written notice of intention to terminate, modify, or withdraw from this Articulation Agreement will be submitted by the academic head of either institution at least one academic semester prior to the proposed date of termination/withdrawal. Should a decision be made to modify or dissolve this agreement, students who are already attending Marian University at the time will be permitted to continue as long as their academic performance remains in good standing.

4. Recognizing that changes in curricula and course content are inevitable, each institution agrees to discuss with the other institution all curriculum changes affecting this agreement before the changes are implemented.
5. This agreement becomes effective when all signatures are affixed and remains in effect for two years from the date below. After two years, the agreement may be renewed with or without modification by mutual agreement of both Ivy Tech Community College and Marian University.

Agreed to __February 19, 2019__ (date)

Ivy Tech Community College

Kara N. Monroe, Ph.D.
Provost and Senior Vice President
for Academic Affairs

Russell D. Baker, Ed. D.
Vice President for Academic Affairs

Marian University

Alan J. Silva, Ph.D.
Executive Vice President and Provost

Saib Othman, Ph.D.
Associate Provost of Academic Affairs
Addendum One: Ivy Tech Community College Curriculum

Ivy Tech Community College Courses Fulfiling
Indiana Transfer General Education Core Competencies

** All courses are appropriate for STEM programs unless otherwise noted.

** Written Communication
ENGL 111 English Composition*

** Speaking and Listening
COMM 101 Fundamentals of Public Speaking* and/or COMM 102 Intro to Interpersonal Communication*

** Quantitative Reasoning
MATH 123 Quantitative Reasoning (not a STEM selection); MATH 135 Finite Math*; MATH 136 College Algebra*; MATH 137 Trig with Analytic Geometry*; MATH 201 Brief Calculus*; MATH 202 Brief Calculus II*; MATH 211 Calculus I*; MATH 212 Calculus II*; MATH 221 Calculus for Technology I; MATH 222 Calculus for Technology II

** Scientific Ways of Knowing
ASTR 101 Solar System Astronomy*; BIOL 101 Introductory Biology*; BIOL 105 Biology I*; BIOL 107 Biology II*; BIOL 121 General Biology; BIOL 211 Microbiology I*; CHEM 101 Introductory Chemistry*; CHEM 105 General Chemistry I*; CHEM 111 Chemistry I; PHYS 101 Physics I*; PHYS 102 Physics II*; PHYS 220 Mechanics*; PHYS 221 Heat, Electricity, & Optics; SCIN 100 Earth Science*; SCIN 111 Physical Science*

** Social and Behavioral Ways of Knowing
ANTH 154 Cultural Anthropology; ECON 101 Economics Fundamentals*; ECON 201 Principles of Economics*; ECON 202 Principles of Microeconomics*; HIST 101 Survey of American History I*; HIST 102 Survey of American History II*; HIST 111 World Civilization I; HIST 112 World Civilization II; POLS 101 Introduction to American Government and Politics*; POLS 211 Introduction to World Politics*; PSYC 101 Introduction to Psychology*; PSYC 201 Lifespan Development*; PSYC 205 Abnormal Psychology*; PSYC 240 Human Sexuality*; SOCI 111 Introduction to Sociology*; SOCI 164 Multicultural Studies; SOCI 245 Cultural Diversity; SOCI 252 Social Problems*

** Humanistic and Artistic Ways of Knowing
ARTH 101 Survey of Art & Culture*; ARTH 102 Survey of Art and Culture II*; ARTH 110 Art Appreciation*; ENGL 202 Creative Writing*; ENGL 206 Introduction to Literature*; ENGL 214 Introduction to Poetry*; ENGL 220 Introduction to World Literature*; ENGL 221 Introduction to World Literature After the Renaissance*; ENGL 222 American Literature to 1865*; ENGL 223 American Literature After 1865*; FREN 101 French Level I*; FREN 102 French Level II*; FREN 201 French Level III*; FREN 202 French Level IV*; GERM 101, German Level I; GERM 102 German Level II; HUMA 100 Theatre Appreciation*; HUMA 118 Music Appreciation*; PHIL 101 Introduction to Philosophy*; PHIL 102 Introduction to Ethics*; PHIL 220 Philosophy of Religion*; SPAN 101 Spanish Level I*; SPAN 102 Spanish Level II*; SPAN 201 Spanish Level III*; SPAN 202 Spanish Level IV*

Total Transfer General Education Core
30 minimum credits

*CTL courses
The following suggested sequence includes all course requirements for this degree. You must consult with an academic advisor to determine which Transfer Cluster Electives should be chosen to receive the most credit at the receiving college or university.

Semester 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ENGL 111</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>ITSP 135</td>
<td>Hardware/Software Support</td>
<td>4</td>
</tr>
<tr>
<td>IVYT 115</td>
<td>Student Success in Computing and Informatics</td>
<td>1</td>
</tr>
<tr>
<td>SDEV 120</td>
<td>Computer Logic</td>
<td>3</td>
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<td>*XXXX XXX</td>
<td>Humanistic and Artistic Ways of Knowing Elective</td>
<td>3</td>
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<td><strong>Semester Total</strong></td>
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Semester 2

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<tbody>
<tr>
<td>*COMM 101</td>
<td>Fundamentals of Public Speaking</td>
<td>3</td>
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<tr>
<td>CSCI 101</td>
<td>Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 105</td>
<td>Discrete Logic for Computers</td>
<td>3</td>
</tr>
<tr>
<td>*MATH 211</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>*XXXX XXX</td>
<td>Social and Behavioral Ways of Knowing Elective</td>
<td>3</td>
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Semester 3

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<tbody>
<tr>
<td>*MATH 212</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>CSCI 210</td>
<td>Database Systems</td>
<td>3</td>
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<tr>
<td>CSCI 201</td>
<td>Computer Science II</td>
<td>3</td>
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<tr>
<td><strong>Choose 5 credits from the following:</strong></td>
<td></td>
<td><strong>5</strong></td>
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<tr>
<td>*BIOL 105</td>
<td>Biology I</td>
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<tr>
<td>*CHEM 105</td>
<td>General Chemistry I</td>
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<tr>
<td>*PHYS 220</td>
<td>Mechanics</td>
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<td><strong>Semester Total</strong></td>
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Semester 4

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<th>Course</th>
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<tbody>
<tr>
<td>^CSCI 279</td>
<td>Computer Science Capstone</td>
<td>1</td>
</tr>
<tr>
<td>SDEV 265</td>
<td>Systems/Software Analysis and Projects</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 202</td>
<td>Data Structures</td>
<td>3</td>
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<tr>
<td><strong>Select 3 credits from the following:</strong></td>
<td></td>
<td><strong>3</strong></td>
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<tr>
<td>SDEV 200</td>
<td>Software Development using Java</td>
<td></td>
</tr>
<tr>
<td>SDEV 210</td>
<td>Software Development using Visual Basic in the .NET Framework</td>
<td></td>
</tr>
<tr>
<td>SDEV 220</td>
<td>Software Development using Python</td>
<td></td>
</tr>
<tr>
<td>SDEV 240</td>
<td>Software Development using C#</td>
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</tr>
<tr>
<td><strong>Select 5 credits from the following:</strong></td>
<td></td>
<td><strong>5</strong></td>
</tr>
<tr>
<td>*BIOL 107</td>
<td>Biology II</td>
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</tr>
<tr>
<td>*CHEM 106</td>
<td>General Chemistry II</td>
<td></td>
</tr>
<tr>
<td>*PHYS 221</td>
<td>Heat, Electricity, and Optics</td>
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</tr>
<tr>
<td><strong>Semester Total</strong></td>
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</table>

*Required for Transfer General Education Certificate

^Capstone Course
### Ivy Tech Community College Courses

**Transfer General Education Curriculum:** 30 credits

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Written Communication</td>
<td>3</td>
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<tr>
<td>Speaking and Listening</td>
<td>3-6</td>
</tr>
<tr>
<td>Quantitative Reasoning</td>
<td>3-9</td>
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<tr>
<td>Scientific Ways of Knowing</td>
<td>3-10</td>
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<tr>
<td>Social &amp; Behavioral Ways of Knowing</td>
<td>3-9</td>
</tr>
<tr>
<td>Humanistic and Artistic Ways of Knowing</td>
<td>3-9</td>
</tr>
</tbody>
</table>

**Other Institutional Requirements:** 2 credits

- IVYT 111: Student Success in University Transfer 1
- LIBA 279: Liberal Arts Capstone 1

**Program Course Requirements:** 19 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 112*</td>
<td>Exposition and Persuasion</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 102</td>
<td>Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 201</td>
<td>Lifespan Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 211</td>
<td>Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 253</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- FREN 102: French Level II 4
- SPAN 102: Spanish Level II 4

**Statewide Elective:** 9 credits

**Total Credits Required for ITCC Degree** 60 credits

**Total Transfer Credits to Marian University** 60 credits

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### Marian University Transfer Equivalent

30 credit hours awarded toward general education requirements

2 elective credit hours awarded toward graduation requirement

19 credit hours awarded toward degree and graduation requirement

- ENGL 112: Writing & Community
- PHL 215: Personal and Professional Ethics
- PSYC 220: Human Growth and Development
- PSY 250: Research Methods
- PSY 325: Social Psychology

FRE 102: Intro to French II
SPA 102: Intro to Spanish II

9 credit hours awarded toward graduation requirement

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- Please note that Ivy Tech course ENGL 112, Exposition and Persuasion, will be changing to ENGL 215, Rhetoric and Argument, effective Fall Semester 2019. The course content and learning objectives are not changing significantly and the course will remain listed under the course name of English Composition II in the CTL.
Addendum Two: Course Requirements for Transfer  
Remaining Course Requirements Identified 

Sample Semester Sequence of Remaining Course Requirements at Marian University

Sample Semester Sequence

Fifth Semester (18)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>CST 340</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>MAT 230</td>
<td>Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Minor/cluster course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Minor/cluster course</td>
<td>3</td>
</tr>
<tr>
<td>MAT 322</td>
<td>Statistical Inference 1</td>
<td>3</td>
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Sixth Semester (17)

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>CST 318</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CST 250</td>
<td>Algorithms</td>
<td>3</td>
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<tr>
<td></td>
<td>Minor/cluster course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Minor/cluster course</td>
<td>3</td>
</tr>
<tr>
<td>MAT 231</td>
<td>Calculus 2</td>
<td>4</td>
</tr>
<tr>
<td>MAT 250</td>
<td>Logic and Proof</td>
<td>3</td>
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</table>

Seventh Semester (15-17)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>CST 315</td>
<td>Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>MAT 310</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
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<td></td>
<td>Minor/cluster course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>CST 490</td>
<td>Senior Seminar</td>
<td>2</td>
</tr>
<tr>
<td>CST 491</td>
<td>Senior Capstone</td>
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Eighth Semester (15-17)

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CST 420</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CST 371</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Minor/cluster course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
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</tr>
</tbody>
</table>

Total Credit Requirement at Marian University 128 credits