Santa Fe Community College

Bachelor of Science in Computer Science
## ARTICULATION TRANSFER MATRIX BETWEEN

**SANTA FE COMMUNITY COLLEGE**

AND

**NEW MEXICO HIGHLANDS UNIVERSITY**

<table>
<thead>
<tr>
<th>SFCC Associate in Science - Computer Science</th>
<th>NMHU Bachelor of Science in Computer Science</th>
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<tbody>
<tr>
<td><strong>General Education - 39 Credits</strong></td>
<td><strong>NMHU Requirements</strong></td>
</tr>
<tr>
<td>ENGL 111 Composition and Rhetoric 3</td>
<td>BS - Computer Science Requirements</td>
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<tr>
<td>ENGL 112 Composition and Literature 3</td>
<td>CS 350 Prog Sem I 3</td>
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<tr>
<td>ENGL 216 Technical Writing or 3</td>
<td>CS 431 Database Mgmt 3</td>
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<tr>
<td>SPCH 111 or Public Speaking or 3</td>
<td>CS 451 Software Engr 3</td>
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<tr>
<td><strong>Area I. Communications - 9 credits</strong></td>
<td>CS 481 Sr. Project Design 1</td>
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<tr>
<td>MATH 162 Calculus I 4</td>
<td>CS 482 Sr. Proj Implement 3</td>
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<tr>
<td>MATH 163 Calculus II 4</td>
<td><strong>Computer Science Requirements Total</strong></td>
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<tr>
<td><strong>Area II. Mathematics - 8 credits</strong></td>
<td>13</td>
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<tr>
<td><strong>Area III. Laboratory Science - 12 credits</strong></td>
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<tr>
<td>Any Science and Lab courses 12</td>
<td><strong>Concentration in Software/Hardware Systems</strong></td>
</tr>
<tr>
<td><strong>Area IV. Social/Behavioral Sciences - 3 - 6 credits</strong></td>
<td>CS 341 Mach Arch and Assemb Lang Prog 3</td>
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<tr>
<td>Any Social/Behavioral Science courses that</td>
<td>CS 345 Data &amp; File Struc 4</td>
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<tr>
<td>satisfy core curriculum (Areas IV and V must</td>
<td>CS 421 Adv Data Struct and Algorithm Dev 3</td>
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<tr>
<td>total 8 credits.)</td>
<td>CS 443 Operating Systems 3</td>
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<tr>
<td><strong>Area V. Humanities and Fine Arts - 3 - 6 credits</strong></td>
<td>CS 450 Prog Sem 2 3</td>
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<tr>
<td>Any Humanities and Fine Arts courses that</td>
<td>CS 461 Prog Lang 3</td>
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<tr>
<td>satisfy core curriculum (Areas IV and V must</td>
<td>CS Electives Choose one of the following: CS 314, CS 316,</td>
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<tr>
<td>total 9 credits.)</td>
<td>CS 328, CS 418, CS 463, CS 471.</td>
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<tr>
<td><strong>Area VI. Health and Wellness - 1 credit</strong></td>
<td>3</td>
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<tr>
<td>Any HHED Course 1</td>
<td><strong>Complete six credits of a 300-400 computer science,</strong></td>
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<tr>
<td><strong>Core Requirements - 23 credits</strong></td>
<td><strong>mathematics, biology, chemistry or physics or appropriate</strong></td>
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<tr>
<td>ISCS 120 Introduction to Programming I 4</td>
<td><strong>science courses with approval from major advisor.</strong></td>
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<tr>
<td>ISCS 125 Introduction to Programming II 4</td>
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<tr>
<td>ISCS 215 Intermediate Programming 3</td>
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<tr>
<td>ISCS 225 Advanced Programming and Data</td>
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<tr>
<td>Structures 3</td>
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<td>ISCS 241 Data Organization and Implementation 3</td>
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<tr>
<td>MATH 261 Mathematical Foundations for</td>
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<tr>
<td>Computer Science 3</td>
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<tr>
<td>ISCS 273 Cyber Ethics 3</td>
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<tr>
<td><strong>Note:</strong> Students participating with the</td>
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<tr>
<td>agreement must complete ENGL 216 at SFCC</td>
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<tr>
<td>or fulfill ENGL 367 at NMHU. Additionally,</td>
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<tr>
<td>students must complete MATH 261 at SFCC or</td>
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<tr>
<td>fulfill MATH 317 Discrete Math at NMHU.</td>
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### Concentration in Software/Hardware Systems

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<tbody>
<tr>
<td>CS 421 Adv Data Struct and Algorithm Dev 3</td>
<td>3</td>
</tr>
<tr>
<td>Operating Systems 3</td>
<td>3</td>
</tr>
<tr>
<td>Prog Sem 2 3</td>
<td>3</td>
</tr>
<tr>
<td>CS 461 Prog Lang 3</td>
<td>3</td>
</tr>
<tr>
<td>CS 341 Mach Arch and Assemb Lang Prog 3</td>
<td>3</td>
</tr>
<tr>
<td>CS 345 Data &amp; File Struc 4</td>
<td>4</td>
</tr>
<tr>
<td>CS Electives Choose one of the following: CS 314, CS 316, CS 328, CS 418, CS 463, CS 471.</td>
<td>3</td>
</tr>
<tr>
<td><strong>Complete six credits of a 300-400 computer science, mathematics, biology, chemistry or physics or appropriate science courses with approval from major advisor.</strong></td>
<td>6</td>
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### Additional required courses

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<tr>
<td>ENGR 384 Microprocessor Design 3</td>
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<td>MATH 320 Linear Algebra 3</td>
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<td>MATH 345 Math Statistics I 3</td>
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### Additional required courses

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<tbody>
<tr>
<td><strong>NMHU BS Computer Science Total Credit Hours</strong></td>
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<tr>
<td><strong>SFCC AA Requirements</strong></td>
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### General Electives Either at SFCC or NMHU

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<tr>
<td><strong>Total Credit Hours</strong></td>
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### AA Computer Science Total Credit Hours

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<tbody>
<tr>
<td>62</td>
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### Signatures/Date

**Santa Fe Community College**

Department Chair: [Signature]

Dean: [Signature]

Updated 03/16/2016

**New Mexico Highlands University**

Department Chair: [Signature]

Dean: [Signature]

VPAA: [Signature]