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| **Transfer Model Curriculum (TMC) Template for Computer Science** | Template # 2007 |
| **CCC Major or Area of Emphasis:** Computer Science | Rev. 1: 09/01/14 |
| **TOP Code:** 070600 |  |
| **CSU Major(s):** Computer Science |  |
| **Total Units:** 28*(all units are minimum semester units)* |  |

In the four columns to the right under the **College Program Requirements**, enter the college’s course identifier, title and the number of units comparable to the course indicated for the TMC. If the course may be double-counted with either CSU-GE or IGETC, enter the GE Area to which the course is articulated. To review the GE Areas and associated unit requirements, please go to Chancellor’s Office Academic Affairs page, RESOURCE section located at:

<http://extranet.cccco.edu/Divisions/AcademicAffairs/CurriculumandInstructionUnit/TransferModelCurriculum.aspx> or the ASSIST website: <http://web1.assist.org/web-assist/help/help-csu_ge.html>.

The units indicated in the template are the **minimum** semester units required for the prescribed course or list. All courses must be CSU transferable. ***All courses with an identified C-ID Descriptor must be submitted to C-ID prior to submission of the Associate Degree for Transfer (ADT) proposal to the Chancellor’s Office.***

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| **Associate in Science in Computer Science for Transfer Degree**  **College Name:** **Gavilan College** | | | | | | |
| **TRANSFER MODEL CURRICULUM (TMC)** | | **COLLEGE PROGRAM REQUIREMENTS** | | | | |
| **Course Title (units)** | **C-ID Descriptor** | **Course ID** | **Course Title** | **Units** | **GE Area** | |
| **CSU** | **IGETC** |
| **REQUIRED CORE:** (28 units) |  |  |  |  |  | |
| Programming Concepts and Methodology I (CS1) (3) | COMP 122 | CSIS 5  CSIS 45  CSIS 24 | C++ Scientific Programming  or  C++ Programming I  or  Java Programming I | 3  3  3 |  |  |
| Programming Concepts and Methodology II (CS2) (3) | COMP 132 | CSIS 46  CSIS 27 | C++ Programming II  or  Java Programming II | 3  3 |  |  |
| Computer Architecture and Organization (3) | COMP 142 | CSIS 28 | Computer Architecture and Organization | 3 |  |  |
| Discrete Structures (3) | COMP 152 | CSIS 26 | Discrete Structures | 3 | B4 | 2A |
| Single Variable Calculus I – Early Transcendentals (4)  **AND**  Single Variable Calculus II – Early Transcendentals (4)  **OR**  Single Variable Calculus I – Late Transcendentals (4)  **AND**  Single Variable Calculus II – Late Transcendentals (4)  **OR**  Single Variable Calculus Sequence (8) | MATH 210  **AND**  MATH 220  **OR**  MATH 211  **AND**  MATH 221  **OR**  MATH 900S | MATH 1A  MATH 1B | Single-Variable Calculus and Analytic Geometry  and  Single-Variable Calculus and Analytic Geometry | 4  4 | B4  B4 | 2A  2A |
| Calculus-Based Physics for Scientists and Engineers: A (4) | PHYS 205 | PHYS 4A | Physics for Scientists and Engineers - Mechanics | 4 | B1, B3 | 5A,  5C |
| Calculus-Based Physics for Scientists and Engineers: B (4) | PHYS 210 | PHYS 4B | Physics for Scientists and Engineers - Electricity and Magnetism | 4 | B1, B3 | 5A,  5C |
| **Total Units for the Major:** | **28** | **Total Units for the Major:** | | 28 |  | |
|  | | **Total Units that may be double-counted**  **(*The transfer GE Area limits must not be exceeded)*** | | | 7 | 7 |
| **General Education (CSU-GE or IGETC) Units** | | | **39** | **37** |
| **Elective (CSU Transferable) Units** | | | 0 | 2 |
| **Total Degree Units (maximum)** | | | **60** | |