**ADT Submission Form for Biology CCC Major or Area of Emphasis:** Biology

**TOP Code:** 040100

**CSU Major(s):** Biology

**Total Units:** 29 *(all units are minimum semester units)*

ADT Submission Form # 2014

Rev. 2: 05/18/2015

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 form. If the course may be double-counted with Cal-GETC, 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:

[https://www.cccco.edu/About-Us/Chancellors-Office/Divisions/Educational-Services-and-Support/What-we-do/Curriculum-and-](https://www.cccco.edu/About-Us/Chancellors-Office/Divisions/Educational-Services-and-Support/What-we-do/Curriculum-and-Instruction-Unit/Templates-For-Approved-Transfer-Model-Curriculum) [Instruction-Unit/Templates-For-Approved-Transfer-Model-Curriculum](https://www.cccco.edu/About-Us/Chancellors-Office/Divisions/Educational-Services-and-Support/What-we-do/Curriculum-and-Instruction-Unit/Templates-For-Approved-Transfer-Model-Curriculum)

or the ASSIST website:

<https://www.assist.org/>.

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.***

Where no **C-ID Descriptor** is indicated, discipline faculty should compare their existing course to the example course(s) provided in the TMC at:

<http://www.c-id.net/degreereview.html>

Attach the appropriate ASSIST documentation as follows:

* *Articulation Agreement by Major* (***AAM***) demonstrating lower division preparation in the major at a CSU;
* *CSU Baccalaureate Level Course List by Department* (***BCT***) for the transfer courses; and/or,
* *CSU GE Certification Course List by Area* (***GECC***).

The acronyms ***AAM, BCT,*** and ***GECC*** will appear in **C-ID Descriptor** column directly next to the course to indicate which report will need to be attached to the proposal to support the course’s inclusion in the transfer degree. To access ASSIST, please go to [http://www.assist.org](http://www.assist.org/).

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| **Associate in Science in Biology for Transfer Degree College Name: LOS ANGELES PIERCE COLLEGE** | | | | | | |
| **TRANSFER MODEL CURRICULUM (TMC)** | | **COLLEGE PROGRAM REQUIREMENTS** | | | | |
| **Course Title (units)** | **C-ID**  **Descriptor** | **Course ID** | **Course Title** | **Units** | **Cal-GETC** | |
| **REQUIRED CORE:** (8-12 units) |  |  | | | | |
| Biology Sequence for Majors (8) | BIOL 135S | BIOLOGY  006  BIOLOGY  007 | General Biology I  General Biology II | 5  5 |  | 5B & 5C  5B & 5C |

ADT Submission Form # 2014 1

Biology

ADT Submission Form Date: 02/01/15

Rev. 1: 04/01/15

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| **TRANSFER MODEL CURRICULUM (TMC)** | | **COLLEGE PROGRAM REQUIREMENTS** | | | |
| **Course Title (units)** | **C-ID**  **Descriptor** | **Course ID** | **Course Title** | **Units** | **Cal-GETC** |
| **OR**  Cell and Molecular Biology (4) ***and***  Organismal Biology (4)  **OR**  Cell and Molecular Biology (4) ***and***  Organismal Biology(4), Ecology and Evolution (8)  **OR**  Cell and Molecular Biology (4) ***and***  Zoology/Animal Diversity and Evolution (4) ***and*** Botany/Plant Diversity and Ecology(4) | BIOL 190  BIOL 140  BIOL 190  BIOL 130S  BIOL 190  BIOL 150  BIOL 155 |  |  |  |  |
| **LIST A:** (21-22 units) |  |  |  |  |  |
| General Chemistry for Science Majors Sequence A (10) | CHEM 120S | CHEM 101  CHEM 102 | General Chemistry I  General Chemistry II | 5  5 | 5A & 5C  5A & 5C |
| Single Variable Calculus I – Early Transcendentals (4)  **OR**  Single Variable Calculus I – Late Transcendentals (4)  **OR**  Calculus for Life and Social Sciences (3) | MATH 210  **OR**  MATH 211  **OR**  ***AAM*** | MATH 261 | Calculus I | 5 | 2 |

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| **TRANSFER MODEL CURRICULUM (TMC)** | | **COLLEGE PROGRAM REQUIREMENTS** | | | |
| **Course Title (units)** | **C-ID**  **Descriptor** | **Course ID** | **Course Title** | **Units** | **Cal-GETC** |
| Algebra/Trigonometry-Based Physics A (4)  **AND**  Algebra/Trigonometry-Based Physics B (4)  **OR**  Calculus-Based Physics for Scientists and Engineers: A (4)  **AND**  Calculus-Based Physics for Scientists and Engineers: B (4)  **OR**  Algebra/Trigonometry-Based Physics: AB (8) | PHYS 105  **AND**  PHYS 110  **OR**  PHYS 205  **AND**  PHYS 210  **OR**  PHYS 100S | PHYSICS  006  PHYSICS  007  OR  PHYSICS  066  PHYSICS  067  OR  PHYSICS  101  PHYSICS  102 | General Physics I  General Physics II  Physics with Calculus for  Life Science Majors I  Physics with Calculus for  Life Science Majors II  Physics for Engineers and  Scientists I  Physics for Engineers and  Scientists II | 4  4  5  5  5  5 | 5A & 5C  5A & 5C  5A & 5C  5A & 5C  5A & 5C  5A & 5C |
| **LIST B:** Select additional major preparation (if possible based on unit limitation and if required articulation exists, zero to one course (0-4 units minimum):  Select one (1) additional course that is articulated as major preparation at a CSU campus | ***AAM*** |  |  |  |  |
| **Total Units for the Major:** | **29-38** | **Total Units for the Major:** | | 33-35 |  |
|  | | **Total Double-counted Units (*The transfer GE Area limits must not be exceeded)*** | | | 10 |
| **\*General Education (Cal-GETC) Units** | | | **34** |
| **Elective Units** | | | 1-3 |
| **Total Degree Units (maximum)** | | | **60** |

**NOTES:**

List B should indicate if BIOL 135S is chosen, then one course from List B may be chosen. Then the total units for the major would be 29-34.

Prior TMC included:

*Use of a transferable general education pattern designed for STEM (i.e., IGETC or CSU GE Breadth for STEM) is presumed.*

ADT Submission Form # 2014 Biology

3 ADT Submission Form Date: 02/01/15

Rev. 1: 04/01/15