**PHASE I: DRAFT CURRICULUM WORKSHEET**

**For an Associate Degree with Designation in Biology**

Faculty-to-Faculty Conference – October 25, 2019

The purpose of the conference is to assist the General Education Council (GE Council) in updating the Statewide Transfer Articulation Agreement for your discipline. Faculty groups may decide to take notes on the existing STAA document or use this blank worksheet. As a reminder, the STAA must articulate 60 credits of community college coursework that:

* will fulfill the requirements for an AA or AS Degree with Designation;
* will transfer into a BA or BS degree at a four-year institution;
* will put the transfer student at junior status when admitted; and
* will allow the transfer student to graduate with the BA or BS degree in no more than 60 credits of additional coursework, for a total of 120 credits.
* NOTE: the work products for engineering and educator preparation may result in an AA/AS of more than 60 credits, and a bachelor’s degree in more than 120 credits, provided the degrees can be completed within two years and four years, respectively

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| **Courses that Fulfill General Education Requirements1 34-36** |
|  | **Credit Hours** | **Community College Course No.** | **Course Title or Category** |
| **Arts & Humanities, History, and Social & Behavioral Sciences:** *Must be 15 credit hours total.*To reach a minimum of 15 credits, please select 1 additional course (minimum 3 credits) in Arts & Humanities, **or** History, **or** Social & Behavioral Sciences (or indicate that the choice is up to the student). |
| **Arts & Humanities:** at least 2 courses (minimum 3 credits each) |
| Arts & Humanities  | 6  |  | Two GT Pathways Arts & Humanities courses (GT-AH1, GT-AH2, GT-AH3, GT-AH4) |
| **History:** at least 1 course (minimum 3 credits) |
| History | 3 |  | One GT Pathways History course (GT-HI1)  |
| **Social & Behavioral Sciences:** at least 1 course (minimum 3 credits) |
| Social & Behavioral Sciences  | 6 |  | Two GT Pathways Social & Behavioral Sciences courses (GT-SS1, GT-SS2, GT-SS3)  |
| **Communication:** *2 courses (6 credit hours) in a 2-course sequence of:*\*\* 1 Introductory Writing Course (CO1) and 1 Intermediate Writing Course (CO2) **OR****\*\*** 1 Intermediate Writing Course (CO2) and 1 Advanced Writing Course (CO3) |
| (Written) Communication  | 6 | ENG 121 and ENG 122 **or** ENG 122 and a GT-CO3 course  | English Composition I (GT-CO1) and English Composition II (GT-CO2) **OR** English Composition II (GT-CO2) and a GT Pathways-approved CO3 course (GT-CO3)  |
| **Mathematics**: *at least 1 course (minimum 3 credits* ***or*** *a series of 3 1-credit hour courses)* |
| Mathematics | 3-5 |  | One GT Pathways course (GT-MA1) from the following:MAT 121 College Algebra (4cr)MAT 122 Trigonometry (3cr)MAT 166 Pre-Calculus (5cr)MAT 201 Calculus I (5cr) or higher *See below for specific institutional requirements beyond MAT 121* |
| **Natural & Physical Sciences:** *at least 2 courses (7 credits; must include at least one SC1 course)* |
| Natural & Physical Sciences | 5 | CHE 111 | General Chemistry I |
| Natural & Physical Sciences | 5 | PHY 111 or PHY 211 | Principles of Physics I or General Physics I |
| **Additional Required Courses 15** |
|  | **Credit Hours** | **Community College Course No.** | **Course Title** |
| Biology | 5 | BIO 111 | General College Biology I (GT-SC1)  |
| Biology | 5 | BIO 112 | General College Biology II (GT-SC1)  |
| Chemistry | 5 | CHE 112 | General College Chemistry II (GT-SC1)  |
| **Electives** Choose elective Math and/or science courses in consultation with an advisor, based upon anticipated receiving institution. **Mathematics institutional requirements at specific 4-year institutions**

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| *Institution* | *Community College Courses* | *Credit hours* |
| Adams State | MAT 122 Trigonometry | 3 |
| CSU-Fort CollinsUCCSUC Denver University of Northern Colorado | MAT 201 Calculus I or higher | 5 |
| CSU-Pueblo | MAT 125 Survey of Calculusor MAT 201 Calculus I | 4 or 5 |

**Physics II required by the following institutions:**

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| *Institution* | *Community College Courses* | *Credit hours* |
| Adams State Colorado Mesa UniversityCSU Fort CollinsCSU-PuebloUCCSUC Denver University of Northern Colorado | PHY 112 Principles of Physics II or PHY 212 General Physics II | 5 |

**Biology electives recommended at these institutions—to be chosen in consultation with an advisor**

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| *Institution* | *Community College Courses* | *Credit hours* |
| CU Boulder (Ebio major) | BIO 222 General College Ecology | 4 |
| CU Boulder (I-Phy major) | BIO 201 Anatomy & Physiology I ANDBIO 202 Anatomy & Physiology II | 44 |
| MSU Denver | BIO 201 Anatomy & Physiology I or BIO 204 Microbiology or BIO 221 Botany | 445 |
| University of Northern Colorado | BIO 211 Cell Biologyor BIO 224 Genetics | 54 |
| Western Colorado University | BIO 221 Botanyor BIO 222 General College Ecology | 44 |

Please note: if these credits are *not* required for the *major* at a receiving 4-year institution, they will be applied to the Bachelor’s degree as *elective credit* towards *graduation*. Please check with the receiving institution to determine in which way these courses will be applied.Please note: Students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the applicable CU System’s MAPS (Minimum Academic Preparation Standards) requirement. **9-11** |
| **Total 60** |

1 Students are strongly encouraged to seek academic advising prior to registration regarding the acceptability of online science courses if they anticipate transferring to a 4-year institution or completing graduate work in the sciences or health professions. It should be noted that per Colorado Revised Statute, §23-1-125(1)(e), general education courses taken online are guaranteed to satisfy core course (GT Pathways) requirements at all Colorado public institutions of higher education.

Areas where consensus may be possible (needs further exploration):

Communications option of ENG 131 (GT-CO1) was not included because it is not an approved prerequisite for ENG 122. \_\_\_\_\_

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Make the statement concerning MAPS requirements at University of Colorado more prominent, as included above.

Areas where consensus ***cannot*** be reached. Please explain why: \_\_\_\_\_

Math and Physics requirements vary between institutions and biology major options. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Applicability of lower division biology courses to 4-year degree also varies between institutions.

Suggestion was made to capture intended destination institution (4-year) upon admission to Community College to inform targeted advising during A.S., since most have a particular plan already in mind.