

Memo of Agreement Regarding Articulation  
The Pennsylvania State University for Penn State Harrisburg  
and  
Community College of Philadelphia

**PURPOSE**

The Pennsylvania State University, on behalf of Penn State Harrisburg (PSH) and Community College of Philadelphia (CCP) establish this Memorandum of Agreement Regarding Articulation to facilitate the matriculation of students from CCP to PSH. The purpose of the agreement is to provide a pathway for students who have successfully completed a transfer associate degree program at CCP to transition to a parallel baccalaureate degree program at PSH with a goal of improving student completion and degree attainment. The agreement defines admission criteria, the academic programs included in the agreement, process for the evaluation of transfer credits and academic advising services to support students in their transition from CCP to PSH.

**PROCEDURES**

**A. Admissions Requirements**

CCP students apply to Penn State by submitting the Penn State undergraduate admissions application and official transcripts from CCP and any other colleges or universities attended. The application fee will be waived.

Students who complete an AA, AFA, AS or AAS transfer degree program included in Appendix A, are in good standing, and have a minimum grade-point average of 2.00 are guaranteed admission to Penn State. Criteria for transfer admission to academic programs may also include successful completion of specific course requirements.

Community College students can request dual admission to a Penn State Commonwealth campus by submitting an *Intent to Enroll Form* during their enrollment at CCP. Students will receive a conditional offer of admission to a Penn State Commonwealth Campus. During the last semester of enrollment at CCP, dual admitted students will complete and submit a transfer application via MyPennState. The admissions application fee will be waived. Penn State Commonwealth Campuses will report monthly the names of any students who submit the *Intent to Enroll Form* to the PA Community College transfer advisers.

Students will be asked to notify Penn State of any criminal history prior to enrollment. A prior criminal history issue will not necessarily disqualify a student from attending Penn State but may be subject to further review.

GPA is calculated using the GPA reported by CCP, in addition to all other institutions where a student has attempted college coursework.

## **B. Academic Programs**

The Penn State baccalaureate programs included in the terms of the agreement are detailed in Appendix A and may be updated by the parties without renewing the memo of agreement.

Programs stated in Addendum A will articulate 60 credits of associate degree courses to be applied to degree requirements in a specific Penn State Commonwealth Campus baccalaureate major. Any exception to articulate fewer than 60 credits toward PSU degree requirements must be approved by academic leadership of the PA Community College and the Penn State Commonwealth Campus.

Program-to-program transfer guides outlining the specific course equivalencies and approved substitutions for each academic program are included in the agreement. The guides were developed in consultation with CCP and PSH disciplinary faculty and are included as Addendum B.

Majors not specified in Addendum A, including those offered at other Penn State Colleges and campuses are not covered by the terms of this agreement. Therefore, students admitted under this agreement who seek to enter a major at another Penn State college/campus, would be evaluated based on the advanced standing admissions criteria of that college and campus.

### **Penn State Evaluation of Transfer Credits**

Specific course transferability and equivalency, presented in Addendum B were determined by disciplinary faculty and are communicated through transfer course tables maintained by Penn State's Undergraduate Admissions Office in the student information system.

CCP courses evaluated as equivalent to Penn State courses or approved as general credit within a discipline, with grades of C (2.0) or higher, will be added to the student's Penn State academic transcript by the Undergraduate Admissions Office.

Transferability of courses not specified in the program-to-program guides will be reviewed by the Undergraduate Admissions Office on a case-by-case basis. Syllabi are required to support all course evaluations.

Courses evaluated as general requirements were reviewed by the Penn State faculty in the discipline of the course and in some cases, were applied as substitutions for specific degree requirements.

The curriculum transfer guides, in effect at the time a student first enrolls at CCP, will be honored by PSH if the student completes an AA or AS degree program named in the agreement and successfully transfers to a PSH within four years of their first enrollment at CCP, i.e., for CCP students admitted in fall 2024 the agreement will be honored until spring 2028.

Courses/credits earned through Advanced Placement (AP), College-Level Examination Program (CLEP), or other testing programs will be evaluated according to Penn State's established criteria.

Credit evaluation for prior learning activity, for example military education experience and credit by

portfolio will be assessed according to Penn State policy and through the process established by PSH.

### **C. Cost of Attendance, Student Aid and Scholarship Eligibility**

Penn State participates in all the major federal and state student aid programs. Scholarships are awarded based on merit and/or financial need as defined by the specific scholarship program. Students who submit a Free Application for Federal Student Aid (FAFSA) to Penn State are considered for scholarships awarded by the Penn State Office of Student Aid.

PA Community College students who transfer to a Penn State Commonwealth Campus will earn Penn State degree at considerable savings, paying \$5,000 to \$8,000 less (depending on the campus) in annual, full-time, upper division tuition as compared to Penn State's University Park campus.

Penn State will participate in the RaiseMe Transfer Scholarship initiative and will provide grants up to a maximum of \$7,000 to PA Community College students who meet the following eligibility requirements will receive the grant upon transfer:

- Follow Penn State Commonwealth campuses at [RaiseMe](#),
- Enroll and earn micro-scholarships during enrollment at a PA Community College,
- Be a U.S. Citizen or Permanent Resident,
- Maintain a minimum cumulative grade-point average of 2.8; and,
- File the Free Application for Federal Student Aid (FAFSA) annually.

PA Community Colleges will support and promote the RaiseMe Transfer initiative on their campuses.

### **D. Academic Advising and Transition**

CCP and PSH will work in partnership to develop and implement a plan to strengthen their shared roles in academic advising and transition support services.

PSH and CCP will make advising materials and course equivalency information available to students via their respective websites.

PSH will be permitted to support the transition of students enrolled at CCP via outreach initiatives that might include scheduled advising visits at CCP or through invitation to visit PSH.

PSH will provide a dedicated transfer counselor and offer an academic orientation to transferring students for the purpose of providing academic advising, and orientation to academic and technology resources, student life and career services, and financial aid and billing information.

Admissions and Advising staff from all CCP campuses and PSH will meet annually to discuss and enhance student transitions.

#### **E. Update/Report/Relationship**

The Pennsylvania State University and CCP agree to review the agreement and relevant transfer course equivalencies annually and will each assign an individual to serve as liaisons for the purpose of monitoring and updating the agreement. This agreement may be amended, as needed, for specific course or program articulation without affecting the currency of the master agreement.

As a component of this review process The Pennsylvania State University will include five years of data showing enrollment and completion by community college students at the University to be updated annually.

#### **F. Amendments and Term of Effect**

This document constitutes the entire agreement and terms of understanding between The Pennsylvania State University on behalf of PSH and CCP, and supersedes any other prior agreements or understandings between the two parties.

The master agreement will be reviewed annually and revised as necessary. All revisions are to be approved by each institution's official signatories. This Agreement will have a term of one (1) year starting from the last date provided below and will automatically renew for successive one (1) year terms, not to exceed (5) years.

This agreement may be terminated by either party upon written notice to the other party of an intention to terminate. Such notice will be effective only if given one year prior to the intended date of termination.

In the event that this agreement is terminated, curriculum transfer guides, in effect at the time a student first enrolls at CCP in the AA, AFA, AS, or AAS programs identified in Addendum A will be honored for students who complete an AA or AS degree program and successfully transfers to PSH within four years of their first enrollment at CCP.

[SIGNATURES APPEAR ON THE FOLLOWING PAGE]

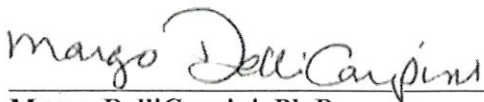


6/4/2024

**Jeff Adams, Ph.D.**

Date

Interim Vice Provost and Dean for Undergraduate Education  
The Pennsylvania State University



5/30/2024

**Margo DelliCarpini Ph.D.**

Date

Vice President for Commonwealth Campuses, and Executive Chancellor  
The Pennsylvania State University

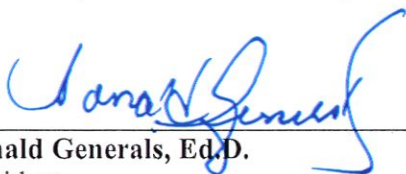


5/29/2024

**David M. Callejo Perez, Ed.D.**

Date

Chancellor/Dean, Penn State Harrisburg  
The Pennsylvania State University



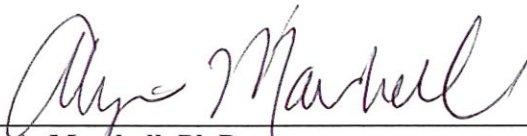
9/4/24

**Donald Generals, Ed.D.**

Date

President

Community College of Philadelphia



9/3/24

**Alycia A. Marshall, Ph.D.**

Date

Provost and Vice President for Academic and Student Success  
Community College of Philadelphia

**Addendum A: Penn State Harrisburg programs included in the Agreement**

1. Bachelor of Science in Civil Engineering
2. Bachelor of Science in Electrical Engineering
3. Bachelor of Science in Electrical Engineering Technology
4. Bachelor of Science in Mechanical Engineering
5. Bachelor of Science in Mechanical Engineering Technology
6. Bachelor of Science in Structural Design and Construction Engineering Technology

## **Addendum B: Program-to-Program Transfer Guides**

**Addendum B**  
**Program-to-Program Articulation**  
**Community College of Philadelphia, A.S. Engineering Science**  
**Penn State Harrisburg, B.S. Civil Engineering**

| Community College of Philadelphia                                                                                                                                           |                                      |         |                       | Penn State Harrisburg                                                                                                                                                                                 |         |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------|
| A.S. Engineering Science<br><a href="https://www.ccp.edu/academic-offerings/all-offerings/engineering">https://www.ccp.edu/academic-offerings/all-offerings/engineering</a> |                                      |         |                       | B.S. Civil Engineering<br><a href="https://bulletins.psu.edu/undergraduate/colleges/capital/civil-engineering-bs/">https://bulletins.psu.edu/undergraduate/colleges/capital/civil-engineering-bs/</a> |         |                         |
| REQUIREMENT                                                                                                                                                                 | COURSE                               | CREDITS | COURSE                | REQUIREMENT                                                                                                                                                                                           | CREDITS | DIRECT OR SUBSTITUTION  |
| ENGR 102                                                                                                                                                                    | Engineering Design and Laboratory I  | 4       | EDSGN 100             | Major Requirement                                                                                                                                                                                     | 3       | Direct                  |
| MATH 171                                                                                                                                                                    | Calculus I                           | 4       | MATH 140              | General Education (GQ)                                                                                                                                                                                | 4       | Direct                  |
| CHEM 121                                                                                                                                                                    | College Chemistry I                  | 4       | CHEM 110 and CHEM 111 | General Education (GN)                                                                                                                                                                                | 4       | Direct and Substitution |
| ENGL 101                                                                                                                                                                    | English Composition I                | 3       | ENGL 15               | General Education (GWS)                                                                                                                                                                               | 3       | Direct                  |
| CIS 103                                                                                                                                                                     | Computer Applications and Concepts   | 3       | MIS XFRGEN            | Additional Course                                                                                                                                                                                     | 3       | Substitution            |
| ENGR 202                                                                                                                                                                    | Engineering Design and Laboratory II | 4       | ENGR XFR100           | Additional Course                                                                                                                                                                                     | 4       | Substitution            |
| PHYS 140                                                                                                                                                                    | Mechanics, Heat, and Sound           | 5       | PHYS 211              | General Education (GN)                                                                                                                                                                                | 4       | Direct                  |
| MATH 172                                                                                                                                                                    | Calculus II                          | 4       | MATH 141              | General Education (GQ)                                                                                                                                                                                | 4       | Direct                  |
| MATH 270                                                                                                                                                                    | Linear Algebra                       | 4       | MATH 220              | General Education (GQ)                                                                                                                                                                                | 3       | Direct                  |
| ENGL 102                                                                                                                                                                    | The Research paper                   | 3       | ENGL XFRGH            | General Education (GH)                                                                                                                                                                                | 3       | Direct                  |
| ENGL 115                                                                                                                                                                    | Public Speaking                      | 3       | CAS 100               | General Education (GWS)                                                                                                                                                                               | 3       | Direct                  |
| CHEM 122                                                                                                                                                                    | College Chemistry II                 | 4       | CHEM 112 and CHEM 113 | General Education (GN)                                                                                                                                                                                | 4       | Direct and Substitution |
| MATH 271                                                                                                                                                                    | Calculus III                         | 4       | MATH 232 and XFRGQ2   | Major Requirement                                                                                                                                                                                     | 4       | Direct                  |
| ENGR 221                                                                                                                                                                    | Vector Mechanics I (Statics)         | 3       | E MCH 211             | Major Requirement                                                                                                                                                                                     | 3       | Direct                  |

|          |                                   |           |           |                          |           |        |
|----------|-----------------------------------|-----------|-----------|--------------------------|-----------|--------|
| PHYS 241 | Electricity, Magnetism, and Light | 5         | PHYS 212  | General Education (GN)   | 4         | Direct |
| SOC 101  | Introduction to Sociology         | 3         | SOC 1     | General Education (GS)   | 3         | Direct |
| MATH 272 | Differential Equations            | 4         | MATH 251  | Major Requirement        | 4         | Direct |
| ENGR 222 | Dynamics                          | 3         | E MCH 212 | Major Requirement        | 3         | Direct |
| CSCI 111 | Computer Science I                | 4         | CMPS 121  | Major Requirement        | 4         | Direct |
|          | <b>Total CCP Credits</b>          | <b>71</b> |           | <b>Total PSH Credits</b> | <b>67</b> |        |

*Penn State requires three credits of International Cultures (IL) and three credits of United States Cultures (US). The two courses that fulfill the IL and US requirements can also be used to fulfill General Education Arts, Humanities or Social Science requirements.*

*Penn State requires two units in a single world language other than English. A student may be admitted with fewer than two units in a world language other than English, but must correct this deficiency by the time she/he earns 60 credits or graduates from Penn State, whichever comes first. This deficiency may be corrected by passing one three- or four-credit college level world language course or by demonstrating proficiency equivalent to two units of high school world language study.*

**Addendum B**  
**Program-to-Program Articulation**  
**Community College of Philadelphia, A.S. Engineering Science**  
**Penn State Harrisburg, B.S. Electrical Engineering**  
**Program offered at Penn State Harrisburg**

| Community College of Philadelphia                                                                                                                                           |                                      |         | Penn State Harrisburg                                                                                                                                                                                                |                         |         |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|-------------------------|
| A.S. Engineering Science<br><a href="https://www.ccp.edu/academic-offerings/all-offerings/engineering">https://www.ccp.edu/academic-offerings/all-offerings/engineering</a> |                                      |         | B.S. Electrical Engineering<br><a href="https://bulletins.psu.edu/undergraduate/colleges/capital/electrical-engineering-bs/">https://bulletins.psu.edu/undergraduate/colleges/capital/electrical-engineering-bs/</a> |                         |         |                         |
| REQUIREMENT                                                                                                                                                                 | COURSE                               | CREDITS | COURSE                                                                                                                                                                                                               | REQUIREMENT             | CREDITS | DIRECT OR SUBSTITUTION  |
| ENGR 102                                                                                                                                                                    | Engineering Design and Laboratory I  | 4       | EDSGN 100                                                                                                                                                                                                            | Major Requirement       | 3       | Direct                  |
| MATH 171                                                                                                                                                                    | Calculus I                           | 4       | MATH 140                                                                                                                                                                                                             | General Education (GQ)  | 4       | Direct                  |
| CHEM 121                                                                                                                                                                    | College Chemistry I                  | 4       | CHEM 110 and CHEM 111                                                                                                                                                                                                | General Education (GN)  | 4       | Direct and Substitution |
| ENGL 101                                                                                                                                                                    | English Composition I                | 3       | ENGL 15                                                                                                                                                                                                              | General Education (GWS) | 3       | Direct                  |
| CIS 103                                                                                                                                                                     | Computer Applications and Concepts   | 3       | MIS XFRGEN                                                                                                                                                                                                           | Additional Course       | 3       | Substitution            |
| ENGR 202                                                                                                                                                                    | Engineering Design and Laboratory II | 4       | ENGR XFR100                                                                                                                                                                                                          | Additional Course       | 4       | Substitution            |
| PHYS 140                                                                                                                                                                    | Mechanics, Heat, and Sound           | 5       | PHYS 211                                                                                                                                                                                                             | General Education (GN)  | 4       | Direct                  |
| MATH 172                                                                                                                                                                    | Calculus II                          | 4       | MATH 141                                                                                                                                                                                                             | General Education (GQ)  | 4       | Direct                  |
| MATH 270                                                                                                                                                                    | Linear Algebra                       | 4       | MATH 220                                                                                                                                                                                                             | General Education (GQ)  | 3       | Direct                  |
| ENGL 102                                                                                                                                                                    | The Research paper                   | 3       | ENGL XFRGH                                                                                                                                                                                                           | General Education (GH)  | 3       | Direct                  |
| ENGL 115                                                                                                                                                                    | Public Speaking                      | 3       | CAS 100                                                                                                                                                                                                              | General Education (GWS) | 3       | Direct                  |
| CHEM 122                                                                                                                                                                    | College Chemistry II                 | 4       | CHEM 112 and CHEM 113                                                                                                                                                                                                | General Education (GN)  | 4       | Direct and Substitution |
| MATH 271                                                                                                                                                                    | Calculus III                         | 4       | MATH 232 and XFRGQ2                                                                                                                                                                                                  | Major Requirement       | 4       | Direct                  |
| ENGR 221                                                                                                                                                                    | Vector Mechanics I (Statics)         | 3       | E MCH 211                                                                                                                                                                                                            | Major Requirement       | 3       | Direct                  |

|          |                                   |           |           |                          |           |        |
|----------|-----------------------------------|-----------|-----------|--------------------------|-----------|--------|
| PHYS 241 | Electricity, Magnetism, and Light | 5         | PHYS 212  | General Education (GN)   | 4         | Direct |
| SOC 101  | Introduction to Sociology         | 3         | SOC 1     | General Education (GS)   | 3         | Direct |
| MATH 272 | Differential Equations            | 4         | MATH 251  | Major Requirement        | 4         | Direct |
| ENGR 222 | Dynamics                          | 3         | E MCH 212 | Major Requirement        | 3         | Direct |
| CSCI 111 | Computer Science I                | 4         | CMPS 121  | Major Requirement        | 4         | Direct |
|          | <b>Total CCP Credits</b>          | <b>71</b> |           | <b>Total PSH Credits</b> | <b>67</b> |        |

*Penn State requires three credits of International Cultures (IL) and three credits of United States Cultures (US). The two courses that fulfill the IL and US requirements can also be used to fulfill General Education Arts, Humanities or Social Science requirements.*

*Penn State requires two units in a single world language other than English. A student may be admitted with fewer than two units in a world language other than English, but must correct this deficiency by the time she/he earns 60 credits or graduates from Penn State, whichever comes first. This deficiency may be corrected by passing one three- or four-credit college level world language course or by demonstrating proficiency equivalent to two units of high school world language study.*

**Addendum B**  
**Program-to-Program Articulation**  
**Community College of Philadelphia, A.S. Engineering Science**  
**Penn State Harrisburg, B.S. Electrical Engineering Technology**  
**Program offered at Penn State Harrisburg**

| Community College of Philadelphia                                                                                                                                           |                                      |         | Penn State Harrisburg                                                                                                                                                                                                                                 |                         |         |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|-------------------------|
| A.S. Engineering Science<br><a href="https://www.ccp.edu/academic-offerings/all-offerings/engineering">https://www.ccp.edu/academic-offerings/all-offerings/engineering</a> |                                      |         | B.S. Electrical Engineering Technology<br><a href="https://bulletins.psu.edu/undergraduate/colleges/capital/electrical-engineering-technology-bs/">https://bulletins.psu.edu/undergraduate/colleges/capital/electrical-engineering-technology-bs/</a> |                         |         |                         |
| REQUIREMENT                                                                                                                                                                 | COURSE                               | CREDITS | COURSE                                                                                                                                                                                                                                                | REQUIREMENT             | CREDITS | DIRECT OR SUBSTITUTION  |
| ENGR 102                                                                                                                                                                    | Engineering Design and Laboratory I  | 4       | EDSGN 100                                                                                                                                                                                                                                             | Major Requirement       | 3       | Direct                  |
| MATH 171                                                                                                                                                                    | Calculus I                           | 4       | MATH 140                                                                                                                                                                                                                                              | General Education (GQ)  | 4       | Direct                  |
| CHEM 121                                                                                                                                                                    | College Chemistry I                  | 4       | CHEM 110 and CHEM 111                                                                                                                                                                                                                                 | General Education (GN)  | 4       | Direct and Substitution |
| ENGL 101                                                                                                                                                                    | English Composition I                | 3       | ENGL 15                                                                                                                                                                                                                                               | General Education (GWS) | 3       | Direct                  |
| CIS 103                                                                                                                                                                     | Computer Applications and Concepts   | 3       | MIS XFRGEN                                                                                                                                                                                                                                            | Additional Course       | 3       | Substitution            |
| ENGR 202                                                                                                                                                                    | Engineering Design and Laboratory II | 4       | ENGR XFR100                                                                                                                                                                                                                                           | Additional Course       | 4       | Substitution            |
| PHYS 140                                                                                                                                                                    | Mechanics, Heat, and Sound           | 5       | PHYS 211                                                                                                                                                                                                                                              | General Education (GN)  | 4       | Direct                  |
| MATH 172                                                                                                                                                                    | Calculus II                          | 4       | MATH 141                                                                                                                                                                                                                                              | General Education (GQ)  | 4       | Direct                  |
| MATH 270                                                                                                                                                                    | Linear Algebra                       | 4       | MATH 220                                                                                                                                                                                                                                              | General Education (GQ)  | 3       | Direct                  |
| ENGL 102                                                                                                                                                                    | The Research paper                   | 3       | ENGL XFRGH                                                                                                                                                                                                                                            | General Education (GH)  | 3       | Direct                  |
| ENGL 115                                                                                                                                                                    | Public Speaking                      | 3       | CAS 100                                                                                                                                                                                                                                               | General Education (GWS) | 3       | Direct                  |
| CHEM 122                                                                                                                                                                    | College Chemistry II                 | 4       | CHEM 112 and CHEM 113                                                                                                                                                                                                                                 | General Education (GN)  | 4       | Direct and Substitution |
| MATH 271                                                                                                                                                                    | Calculus III                         | 4       | MATH 232 and XFRGQ2                                                                                                                                                                                                                                   | Major Requirement       | 4       | Direct                  |
| ENGR 221                                                                                                                                                                    | Vector Mechanics I (Statics)         | 3       | E MCH 211                                                                                                                                                                                                                                             | Major Requirement       | 3       | Direct                  |

|          |                                   |           |           |                          |           |        |
|----------|-----------------------------------|-----------|-----------|--------------------------|-----------|--------|
| PHYS 241 | Electricity, Magnetism, and Light | 5         | PHYS 212  | General Education (GN)   | 4         | Direct |
| SOC 101  | Introduction to Sociology         | 3         | SOC 1     | General Education (GS)   | 3         | Direct |
| MATH 272 | Differential Equations            | 4         | MATH 251  | Major Requirement        | 4         | Direct |
| ENGR 222 | Dynamics                          | 3         | E MCH 212 | Major Requirement        | 3         | Direct |
| CSCI 111 | Computer Science I                | 4         | CMPS 121  | Major Requirement        | 4         | Direct |
|          | <b>Total CCP Credits</b>          | <b>71</b> |           | <b>Total PSH Credits</b> | <b>67</b> |        |

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**Addendum B**  
**Program-to-Program Articulation**  
**Community College of Philadelphia, A.A.S. Applied Engineering Technology**  
**Penn State Harrisburg, B.S. Electrical Engineering Technology**  
**Program offered at Penn State Harrisburg**

| Community College of Philadelphia                                                                                                                                           |                                                                  |         | Penn State Harrisburg                                                                                                                                                                                                                                 |                         |         |                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|------------------------|
| A.S. Engineering Science<br><a href="https://www.ccp.edu/academic-offerings/all-offerings/engineering">https://www.ccp.edu/academic-offerings/all-offerings/engineering</a> |                                                                  |         | B.S. Electrical Engineering Technology<br><a href="https://bulletins.psu.edu/undergraduate/colleges/capital/electrical-engineering-technology-bs/">https://bulletins.psu.edu/undergraduate/colleges/capital/electrical-engineering-technology-bs/</a> |                         |         |                        |
| REQUIREMENT                                                                                                                                                                 | COURSE                                                           | CREDITS | COURSE                                                                                                                                                                                                                                                | REQUIREMENT             | CREDITS | DIRECT OR SUBSTITUTION |
| AET 101                                                                                                                                                                     | Introduction to Robotics                                         | 4       | ET XFR100                                                                                                                                                                                                                                             | Elective                | 4       | Direct                 |
| ENGL 101                                                                                                                                                                    | English Composition I                                            | 3       | ENGL 15                                                                                                                                                                                                                                               | General Education (GWS) | 3       | Direct                 |
| MATH 161                                                                                                                                                                    | Precalculus I                                                    | 3       | MATH XFRGQ0                                                                                                                                                                                                                                           | Elective                | 3       | Direct                 |
| General Elective                                                                                                                                                            |                                                                  | 3       |                                                                                                                                                                                                                                                       | Elective                | 3       | Direct                 |
| CIS 103                                                                                                                                                                     | Computer Applications and Concepts                               | 3       | MIS XFRGEN                                                                                                                                                                                                                                            | Elective                | 3       | Direct                 |
| ENGL 102                                                                                                                                                                    | The Research Paper                                               | 3       | ENGL XFRGH                                                                                                                                                                                                                                            | General Education (GH)  | 3       | Direct                 |
| ELEC 120                                                                                                                                                                    | Direct and Alternating Current Circuits                          | 4       | EET XFRGEN                                                                                                                                                                                                                                            | Technical Elective      | 4       | Direct                 |
| MATH 162                                                                                                                                                                    | Precalculus II                                                   | 3       | MATH 26                                                                                                                                                                                                                                               | General Education (GQ)  | 3       | Direct                 |
| CHEM 110                                                                                                                                                                    | Introductory Chemistry                                           | 4       | CHEM 101                                                                                                                                                                                                                                              | General Education (GN)  | 3       | Direct                 |
| CSCI 111                                                                                                                                                                    | Computer Science I                                               | 4       | CMPS 121                                                                                                                                                                                                                                              | Major Requirement       | 3       | Direct                 |
| ELEC 130                                                                                                                                                                    | Digital Electronics                                              | 4       | CMPE XFRGEN                                                                                                                                                                                                                                           | Technical Elective      | 4       | Direct                 |
| CHEM 121                                                                                                                                                                    | College Chemistry I                                              | 4       | CHEM 110 and CHEM 111                                                                                                                                                                                                                                 | General Education (GN)  | 4       | Direct                 |
| PHYS 111                                                                                                                                                                    | General Physics I                                                | 4       | PHYS 250                                                                                                                                                                                                                                              | General Education (GN)  | 4       | Direct                 |
| Technical Elective                                                                                                                                                          | Any AET course above AET 101 OR ELEC 124 – Semiconductor Devices | 3-4     |                                                                                                                                                                                                                                                       | Technical Elective      | 3       | Direct                 |

| Technical Elective | Any AET course above AET 101 OR ELEC 124 – Semiconductor Devices | 3-4       |          | Technical Elective       | 3         | Direct |
|--------------------|------------------------------------------------------------------|-----------|----------|--------------------------|-----------|--------|
| PHYS 112           | General Physics II                                               | 4         | PHYS 251 | General Education (GN)   | 4         | Direct |
| ENGL 115           | Public Speaking                                                  | 3         | CAS 100  | General Education (GWS)  | 3         | Direct |
| ECON 181           | Principles of Macroeconomics                                     | 3         | ECON 104 | General Education (GS)   | 3         | Direct |
|                    | <b>Total CCP Credits</b>                                         | <b>62</b> |          | <b>Total PSH Credits</b> | <b>60</b> |        |

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**Addendum B**  
**Program-to-Program Articulation**  
**Community College of Philadelphia, A.S. Engineering Science**  
**Penn State Harrisburg, B.S. Mechanical Engineering**

| Community College of Philadelphia                                                                                                                                           |                                      |         | Penn State Harrisburg                                                                                                                                                                                                |                         |         |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|-------------------------|
| A.S. Engineering Science<br><a href="https://www.ccp.edu/academic-offerings/all-offerings/engineering">https://www.ccp.edu/academic-offerings/all-offerings/engineering</a> |                                      |         | B.S. Mechanical Engineering<br><a href="https://bulletins.psu.edu/undergraduate/colleges/capital/mechanical-engineering-bs/">https://bulletins.psu.edu/undergraduate/colleges/capital/mechanical-engineering-bs/</a> |                         |         |                         |
| REQUIREMENT                                                                                                                                                                 | COURSE                               | CREDITS | COURSE                                                                                                                                                                                                               | REQUIREMENT             | CREDITS | DIRECT OR SUBSTITUTION  |
| ENGR 102                                                                                                                                                                    | Engineering Design and Laboratory I  | 4       | EDSGN 100                                                                                                                                                                                                            | Major Requirement       | 3       | Direct                  |
| MATH 171                                                                                                                                                                    | Calculus I                           | 4       | MATH 140                                                                                                                                                                                                             | General Education (GQ)  | 4       | Direct                  |
| CHEM 121                                                                                                                                                                    | College Chemistry I                  | 4       | CHEM 110 and CHEM 111                                                                                                                                                                                                | General Education (GN)  | 4       | Direct and Substitution |
| ENGL 101                                                                                                                                                                    | English Composition I                | 3       | ENGL 15                                                                                                                                                                                                              | General Education (GWS) | 3       | Direct                  |
| CIS 103                                                                                                                                                                     | Computer Applications and Concepts   | 3       | MIS XFRGEN                                                                                                                                                                                                           | Additional Course       | 3       | Substitution            |
| ENGR 202                                                                                                                                                                    | Engineering Design and Laboratory II | 4       | ENGR XFR100                                                                                                                                                                                                          | Additional Course       | 4       | Substitution            |
| PHYS 140                                                                                                                                                                    | Mechanics, Heat, and Sound           | 5       | PHYS 211                                                                                                                                                                                                             | General Education (GN)  | 4       | Direct                  |
| MATH 172                                                                                                                                                                    | Calculus II                          | 4       | MATH 141                                                                                                                                                                                                             | General Education (GQ)  | 4       | Direct                  |
| MATH 270                                                                                                                                                                    | Linear Algebra                       | 4       | MATH 220                                                                                                                                                                                                             | General Education (GQ)  | 3       | Direct                  |
| ENGL 102                                                                                                                                                                    | The Research paper                   | 3       | ENGL XFRGH                                                                                                                                                                                                           | General Education (GH)  | 3       | Direct                  |
| ENGL 115                                                                                                                                                                    | Public Speaking                      | 3       | CAS 100                                                                                                                                                                                                              | General Education (GWS) | 3       | Direct                  |
| CHEM 122                                                                                                                                                                    | College Chemistry II                 | 4       | CHEM 112 and CHEM 113                                                                                                                                                                                                | General Education (GN)  | 4       | Direct and Substitution |
| MATH 271                                                                                                                                                                    | Calculus III                         | 4       | MATH 232 and XFRGQ2                                                                                                                                                                                                  | Major Requirement       | 4       | Direct                  |
| ENGR 221                                                                                                                                                                    | Vector Mechanics I (Statics)         | 3       | E MCH 211                                                                                                                                                                                                            | Major Requirement       | 3       | Direct                  |

|          |                                   |           |           |                          |           |        |
|----------|-----------------------------------|-----------|-----------|--------------------------|-----------|--------|
| PHYS 241 | Electricity, Magnetism, and Light | 5         | PHYS 212  | General Education (GN)   | 4         | Direct |
| SOC 101  | Introduction to Sociology         | 3         | SOC 1     | General Education (GS)   | 3         | Direct |
| MATH 272 | Differential Equations            | 4         | MATH 251  | Major Requirement        | 4         | Direct |
| ENGR 222 | Dynamics                          | 3         | E MCH 212 | Major Requirement        | 3         | Direct |
| CSCI 111 | Computer Science I                | 4         | CMPSC 121 | Major Requirement        | 4         | Direct |
|          | <b>Total CCP Credits</b>          | <b>71</b> |           | <b>Total PSH Credits</b> | <b>67</b> |        |

*Penn State requires three credits of International Cultures (IL) and three credits of United States Cultures (US). The two courses that fulfill the IL and US requirements can also be used to fulfill General Education Arts, Humanities or Social Science requirements.*

*Penn State requires two units in a single world language other than English. A student may be admitted with fewer than two units in a world language other than English, but must correct this deficiency by the time she/he earns 60 credits or graduates from Penn State, whichever comes first. This deficiency may be corrected by passing one three- or four-credit college level world language course or by demonstrating proficiency equivalent to two units of high school world language study.*

**Addendum B**  
**Program-to-Program Articulation**  
**Community College of Philadelphia, A.S. Engineering Science**  
**Penn State Harrisburg, B.S. Mechanical Engineering Technology**  
**Program offered at Penn State Harrisburg**

| Community College of Philadelphia                                                                                                                                           |                                      |         | Penn State Harrisburg                                                                                                                                                                                                                                 |                         |         |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|-------------------------|
| A.S. Engineering Science<br><a href="https://www.ccp.edu/academic-offerings/all-offerings/engineering">https://www.ccp.edu/academic-offerings/all-offerings/engineering</a> |                                      |         | B.S. Mechanical Engineering Technology<br><a href="https://bulletins.psu.edu/undergraduate/colleges/capital/mechanical-engineering-technology-bs/">https://bulletins.psu.edu/undergraduate/colleges/capital/mechanical-engineering-technology-bs/</a> |                         |         |                         |
| REQUIREMENT                                                                                                                                                                 | COURSE                               | CREDITS | COURSE                                                                                                                                                                                                                                                | REQUIREMENT             | CREDITS | DIRECT OR SUBSTITUTION  |
| ENGR 102                                                                                                                                                                    | Engineering Design and Laboratory I  | 4       | EDSGN 100                                                                                                                                                                                                                                             | Major Requirement       | 3       | Direct                  |
| MATH 171                                                                                                                                                                    | Calculus I                           | 4       | MATH 140                                                                                                                                                                                                                                              | General Education (GQ)  | 4       | Direct                  |
| CHEM 121                                                                                                                                                                    | College Chemistry I                  | 4       | CHEM 110 and CHEM 111                                                                                                                                                                                                                                 | General Education (GN)  | 4       | Direct and Substitution |
| ENGL 101                                                                                                                                                                    | English Composition I                | 3       | ENGL 15                                                                                                                                                                                                                                               | General Education (GWS) | 3       | Direct                  |
| CIS 103                                                                                                                                                                     | Computer Applications and Concepts   | 3       | MIS XFRGEN                                                                                                                                                                                                                                            | Additional Course       | 3       | Substitution            |
| ENGR 202                                                                                                                                                                    | Engineering Design and Laboratory II | 4       | ENGR XFR100                                                                                                                                                                                                                                           | Additional Course       | 4       | Substitution            |
| PHYS 140                                                                                                                                                                    | Mechanics, Heat, and Sound           | 5       | PHYS 211                                                                                                                                                                                                                                              | General Education (GN)  | 4       | Direct                  |
| MATH 172                                                                                                                                                                    | Calculus II                          | 4       | MATH 141                                                                                                                                                                                                                                              | General Education (GQ)  | 4       | Direct                  |
| MATH 270                                                                                                                                                                    | Linear Algebra                       | 4       | MATH 220                                                                                                                                                                                                                                              | General Education (GQ)  | 3       | Direct                  |
| ENGL 102                                                                                                                                                                    | The Research paper                   | 3       | ENGL XFRGH                                                                                                                                                                                                                                            | General Education (GH)  | 3       | Direct                  |
| ENGL 115                                                                                                                                                                    | Public Speaking                      | 3       | CAS 100                                                                                                                                                                                                                                               | General Education (GWS) | 3       | Direct                  |
| CHEM 122                                                                                                                                                                    | College Chemistry II                 | 4       | CHEM 112 and CHEM 113                                                                                                                                                                                                                                 | General Education (GN)  | 4       | Direct and Substitution |
| MATH 271                                                                                                                                                                    | Calculus III                         | 4       | MATH 232 and XFRGQ2                                                                                                                                                                                                                                   | Major Requirement       | 4       | Direct                  |
| ENGR 221                                                                                                                                                                    | Vector Mechanics I (Statics)         | 3       | E MCH 211                                                                                                                                                                                                                                             | Major Requirement       | 3       | Direct                  |

|          |                                   |           |           |                          |           |        |
|----------|-----------------------------------|-----------|-----------|--------------------------|-----------|--------|
| PHYS 241 | Electricity, Magnetism, and Light | 5         | PHYS 212  | General Education (GN)   | 4         | Direct |
| SOC 101  | Introduction to Sociology         | 3         | SOC 1     | General Education (GS)   | 3         | Direct |
| MATH 272 | Differential Equations            | 4         | MATH 251  | Major Requirement        | 4         | Direct |
| ENGR 222 | Dynamics                          | 3         | E MCH 212 | Major Requirement        | 3         | Direct |
| CSCI 111 | Computer Science I                | 4         | CMPSC 121 | Major Requirement        | 4         | Direct |
|          | <b>Total CCP Credits</b>          | <b>71</b> |           | <b>Total PSH Credits</b> | <b>67</b> |        |

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**Addendum B**  
**Program-to-Program Articulation**  
**Community College of Philadelphia, A.S. Engineering Science**  
**Penn State Harrisburg, B.S. Structural Design and Construction Engineering Technology**  
**Program offered at Penn State Harrisburg**

| Community College of Philadelphia                                                                                                                                           |                                      |         | Penn State Harrisburg                                                                                                                                                                                                                                                                                                 |                         |         |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|-------------------------|
| A.S. Engineering Science<br><a href="https://www.ccp.edu/academic-offerings/all-offerings/engineering">https://www.ccp.edu/academic-offerings/all-offerings/engineering</a> |                                      |         | B.S. Structural Design and Construction Engineering Technology<br><a href="https://bulletins.psu.edu/undergraduate/colleges/capital/structural-design-construction-engineering-technology-bs/">https://bulletins.psu.edu/undergraduate/colleges/capital/structural-design-construction-engineering-technology-bs/</a> |                         |         |                         |
| REQUIREMENT                                                                                                                                                                 | COURSE                               | CREDITS | COURSE                                                                                                                                                                                                                                                                                                                | REQUIREMENT             | CREDITS | DIRECT OR SUBSTITUTION  |
| ENGR 102                                                                                                                                                                    | Engineering Design and Laboratory I  | 4       | EDSGN 100                                                                                                                                                                                                                                                                                                             | Major Requirement       | 3       | Direct                  |
| MATH 171                                                                                                                                                                    | Calculus I                           | 4       | MATH 140                                                                                                                                                                                                                                                                                                              | General Education (GQ)  | 4       | Direct                  |
| CHEM 121                                                                                                                                                                    | College Chemistry I                  | 4       | CHEM 110 and CHEM 111                                                                                                                                                                                                                                                                                                 | General Education (GN)  | 4       | Direct and Substitution |
| ENGL 101                                                                                                                                                                    | English Composition I                | 3       | ENGL 15                                                                                                                                                                                                                                                                                                               | General Education (GWS) | 3       | Direct                  |
| CIS 103                                                                                                                                                                     | Computer Applications and Concepts   | 3       | MIS XFRGEN                                                                                                                                                                                                                                                                                                            | Additional Course       | 3       | Substitution            |
| ENGR 202                                                                                                                                                                    | Engineering Design and Laboratory II | 4       | ENGR XFR100                                                                                                                                                                                                                                                                                                           | Additional Course       | 4       | Substitution            |
| PHYS 140                                                                                                                                                                    | Mechanics, Heat, and Sound           | 5       | PHYS 211                                                                                                                                                                                                                                                                                                              | General Education (GN)  | 4       | Direct                  |
| MATH 172                                                                                                                                                                    | Calculus II                          | 4       | MATH 141                                                                                                                                                                                                                                                                                                              | General Education (GQ)  | 4       | Direct                  |
| MATH 270                                                                                                                                                                    | Linear Algebra                       | 4       | MATH 220                                                                                                                                                                                                                                                                                                              | General Education (GQ)  | 3       | Direct                  |
| ENGL 102                                                                                                                                                                    | The Research paper                   | 3       | ENGL XFRGH                                                                                                                                                                                                                                                                                                            | General Education (GH)  | 3       | Direct                  |
| ENGL 115                                                                                                                                                                    | Public Speaking                      | 3       | CAS 100                                                                                                                                                                                                                                                                                                               | General Education (GWS) | 3       | Direct                  |
| CHEM 122                                                                                                                                                                    | College Chemistry II                 | 4       | CHEM 112 and CHEM 113                                                                                                                                                                                                                                                                                                 | General Education (GN)  | 4       | Direct and Substitution |
| MATH 271                                                                                                                                                                    | Calculus III                         | 4       | MATH 232 and XFRGQ2                                                                                                                                                                                                                                                                                                   | Major Requirement       | 4       | Direct                  |

|          |                                   |           |           |                          |           |        |
|----------|-----------------------------------|-----------|-----------|--------------------------|-----------|--------|
| ENGR 221 | Vector Mechanics I (Statics)      | 3         | E MCH 211 | Major Requirement        | 3         | Direct |
| PHYS 241 | Electricity, Magnetism, and Light | 5         | PHYS 212  | General Education (GN)   | 4         | Direct |
| SOC 101  | Introduction to Sociology         | 3         | SOC 1     | General Education (GS)   | 3         | Direct |
| MATH 272 | Differential Equations            | 4         | MATH 251  | Major Requirement        | 4         | Direct |
| ENGR 222 | Dynamics                          | 3         | E MCH 212 | Major Requirement        | 3         | Direct |
| CSCI 111 | Computer Science I                | 4         | CMPS 121  | Major Requirement        | 4         | Direct |
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