

Memo of Agreement Regarding Articulation
The Pennsylvania State University for Penn State Behrend
and
Butler County Community College

PURPOSE

The Pennsylvania State University, on behalf of Penn State Behrend and Butler County Community College establish this Memorandum of Agreement Regarding Articulation to facilitate the matriculation of students from Butler County Community College to Penn State Behrend. The purpose of the agreement is to provide a pathway for students who have successfully completed a transfer associate degree program at Butler County Community College to transition to a parallel baccalaureate degree program at Penn State Behrend 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 Butler County Community College to Penn State Behrend.

PROCEDURES

A. Admissions Requirements

Butler County Community College students apply to Penn State by submitting the Penn State undergraduate admissions application and official transcripts from Butler County Community College 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 Addendum 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 Butler County Community College. Students will receive a conditional offer of admission to a Penn State Commonwealth Campus. During the last semester of enrollment at Butler County Community College 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 Butler County Community College.

B. Academic Programs

The Penn State baccalaureate programs included in the terms of the agreement are detailed in Addendum 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 Butler County Community College and Penn State Behrend 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.

Butler County Community College 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 Butler County Community College, will be honored by Penn State Behrend if the student completes an AA or AS degree program named in the agreement and successfully transfers to a Penn State Behrend within four years of their first enrollment at Butler County Community, i.e., for Butler County CC 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 Penn State Behrend.

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 various University awarding units.

PA Community College students who transfer to a Penn State Commonwealth Campus will earn a 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 upon transfer who meet the following eligibility requirements:

- 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

Butler County Community Colleges and Penn State Behrend will work in partnership to develop and implement a plan to strengthen their shared roles in academic advising and transition support services.

Penn State Behrend and Butler County Community College will make advising materials and course equivalency information available to students via their respective websites.

PSU Behrend Campus will be permitted to support the transition of students enrolled at a Community College via outreach initiatives that might include scheduled advising visits at the PA Community College or through invitation to visit the PSU Commonwealth Campus.

Penn State Behrend 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 Butler County Community College campuses and Penn State Behrend will meet annually to discuss and enhance student transitions.

E. Update/Report/Relationship

The Pennsylvania State University and Butler County Community College 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 Penn State Behrend and Butler County Community College 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 Butler County Community College 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 Penn State Behrend within four years of their first enrollment at Butler County Community College.

Pennsylvania State University and BCCC have entered this agreement on the indicated dates and witnessed by the signatures on the following page.

III. AGREEMENT SIGNATURES

Margo DelliCarpini 11/19/2024
Dr. Margo DelliCarpini Date
Vice President for Commonwealth Campuses and
Executive Chancellor
The Pennsylvania State University

Kathleen J. Bieschke 12/4/2024
Dr. Kathleen Bieschke Date
Senior Vice Provost
The Pennsylvania State University

Matt Melvin 11-13-24
Dr. Matt Melvin
Vice President, Enrollment Management
The Pennsylvania State University

Ralph M. Ford 11/19/2024
Dr. Ralph M. Ford Date
Chancellor
Penn State Erie, The Behrend College

Greg Filbeck 12/2/2024
Dr. Greg M. Filbeck Date
Vice Chancellor & Associate Dean for Academic
Affairs
Penn State Erie, The Behrend College

Megan M. Coval 12-10-24
Megan Coval Date
President
Butler County Community College

Belinda Richardson 12-10-24
Dr. Belinda Richardson Date
Vice President for Academic Affairs
Butler County Community College

Addendum A: Penn State Programs included in the Agreement:

BUSINESS PROGRAMS

Accounting
Business Economics
Economics
Finance
International Business
Marketing
Management Information Systems

ENGINEERING PROGRAMS

Mechanical Engineering
Industrial Engineering
Computer Engineering
Electrical Engineering
Computer Science
Software Engineering
Electrical and Computer Engineering Technology
Mechanical Engineering Technology
Plastics Engineering Technology
Polymer Engineering

HUMANITIES PROGRAMS

Creative Writing
Digital Media Arts and Technology
English
General Arts and Sciences
History
Political Science

SCIENCE PROGRAMS

Chemistry
Environmental Science
Interdisciplinary Science and Business
Mathematics
Physics
Science

Addendum B

Program to Program Articulation

Butler County Community College Associate in Business and Entrepreneurship

Penn State Baccalaureate of Science in Accounting, Business Economics, Economics (B.A.), Finance, *Functional Data Analytics, *Interdisciplinary Business and Engineering, International Business, Marketing, Management Information Systems

Program delivered at Penn State Behrend

BC3 Business and Entrepreneurship Business Administration, AS Butler County Community College (bc3.edu)		Penn State Behrend Business (BCBUS_BS) Black School of Business Penn State Behrend (psu.edu)			
Course Requirements	Credits	Course	Requirement	Credits	Direct/ Substitution
ENGL 101 - College Writing	3	ENGL 15 - Rhetoric and Composition	General Education Writing/Speaking Requirement (GWS)	3	Direct
COMP 210 - Productivity Applications	3	CMPS 100-Comp Funds and Apps	BC3 requirement	3	Direct/Needed for BC3 AS
COMP 242-Microcomputer Applications (CMPS XFR100)	3	MIS 204-Intro to Management Info Systems	Major Requirement	3	Substitution
ECON 102 - Principles of Economics - Micro Approach	3	ECON 102-Microeconomics	Major Prescribed Course	3	Direct

COMM 201 - Speech	3	CAS 100A-Effective Speech	General Education (GWS)	3	Direct
ECON 101 - Principles of Economics - Macro Approach	3	ECON 104-Macroeconomics	Major Requirement	3	Direct
ACCT 203 - Financial Accounting ACCT 234 - Managerial Accounting (ACCTG XFR100 + ACCTG XFR100)	3 3	ACCTG 211-Financial and Managerial Acct	Major Requirement	4	Substitution
BUSN 214 - Marketing	3	MKTG 301 Principles of Marketing	Major Requirement	3	Direct
ENGL 102 - Research Writing	3	ENGL 202B for ENGL 202D – Effective Writing: Business Writing	General Education Writing and Speaking (GWS)	3	Substitution
BUSN 123 - Principles of Management	3	MGMT 301-Principles of Management	Major Requirement	3	Direct
BUSN 244-Financial Management (FIN XFR200)	3	FIN 301-Corporation Finance	Major Requirement	3	Substitution
MATH 125 - Business Calculus (XFRGQ1)	3	MATH 110-Business Calculus	Elective Major/General Education Quantification (GQ)	3	Substitution, student will need to make up 1 credit (MATH 110=4 cr.)
BUSN 219 - Business Statistics (STAT XFRGEN)	3	STAT 200 GQ -Statistics	Major/General Education Quantification (GQ)	4	Substitution

Humanities Elective (GH) COMM 101 ENGL 180 (INTERDOMAIN) ENGL 204 ENGL 209 HIST 121 (IL) HIST 201 (US)	6	General Education Humanities (GH)	General Education Humanities (GH)	6	Direct
Art Elective (GA) ARTS 101 ARTS 102 ARTS 104 ARTS 105 ARTS 110 ARTS 112 ARTS 114 ARTS 165	6	Art Elective	Art Elective	6	Direct
Social and Behavioral Science (GS) ECON 101 ECON 102	3 + 3	ECON 104 (GS) – Intro Macroeconomics ECON 102 (GS) – Intro Microeconomics	Major Required Course and General Education Social and Behavioral Science	6	Direct
General Health and Wellness (GHW) HLTH 120 PHED 102 PHED 125 PHED 131 PHED 134	3	General Health and Wellness	General Health and Wellness	3	Direct and Sub

PHED 140 PKMT 110					
Science Elective (GN) BIOL 103, 115, 116, 120, 121 CHEM 100, 101, 102, 112, 125 PHSC 110, 114, 120, 123 PHYS 101, 102, 221, 222, 242	3-4	General Education Natural Sciences Requirement (GN)	General Education Natural Sciences Requirement (GN)	6	Direct
TOTAL CREDITS	61-62			70	

* If pursuing the Economics B.A. student will need up to third level proficiency in a language due to this being a Bachelor of Arts degree

* All general education courses do not need to be taken at BC3 to graduate in four semesters at Penn State Behrend

* **Functional Data Analytics, Interdisciplinary Business and Engineering do not have the same entrance to major requirements as other BCBUS programs. Please contact the Business Transfer Specialist to create an academic plan.**

ALWAYS CHECK THE PSU TRANSFER TOOL FOR EQUIVALENCIES

[Transfer Credit Tool \(psu.edu\)](https://public.lionpath.psu.edu)

<https://public.lionpath.psu.edu>

Addendum B

Program to Program Articulation

Butler County Community College Associate in Engineering

Penn State Baccalaureate of Science in Mechanical Engineering, Industrial Engineering, Computer Engineering, Electrical Engineering, Computer Science, and Software Engineering, Polymer Engineering and Science

Program delivered at Penn State Behrend

BC3 Engineering Engineering, AS Butler County Community College (bc3.edu)		Penn State Behrend Engineering (BCEGN) School of Engineering Penn State Behrend (psu.edu)			
Course Requirements	Credits	Course	Requirement	Credits	Direct/ Substitution
COMP 230 (3) – Programming in C++ for Engineers and Scientists	3	CMPSC 200 (3) – Programming for Engineers with MATLAB	Major Requirement	3	Sub
MATH 221 (4) – Calc and Analytic Geometry I	4	MATH 140 (4) – Calculus I	General Education Quantification Requirement (GQ) and Major Requirement	4	Direct
MATH 222 (4) – Calc and Analytic Geometry II	4	MATH 141 (4) – Calculus II	General Education Quantification	4	Direct

			Requirement (GQ) and Major Requirement		
MATH 223 (4) – Calc and Analytic Geometry III	4	MATH 230 (4) – Calculus III	General Education Quantification Requirement (GQ) and Major Requirement	4	Sub
MATH 230 (3) – Linear Algebra	3	MATH 220 (2) – Matrices	General Education Quantification Requirement (GQ) and Major Requirement	2	Direct
MATH 224 (3) – Differential Equations	3	MATH 250 (3) – Differential Equations Note: students will need to take a 1-credit MATH 252, Partial Differential Equations course at Penn State, since 4 credit Math 251 is required for the ME program.	General Education Quantification Requirement (GQ) and Major Requirement	3	Direct
CHEM 101 (4) – Chemistry I	4	CHEM 110 (3) Chemical Principles CHEM 111 (1) – Experimental Chemistry	Requirement (GN) and Major Requirement or Elective	4	Direct
PHYS 221 (4) – Engineering Physics I	4	PHYS 211 (4) – Physics: Mechanics	Requirement (GN) and Major Requirement or Elective	4	Direct
PHYS 222 (4) – Engineering Physics II	4	PHYS 212 (4) – Physics: Electricity & Magnetism	Requirement (GN) and Major Requirement or Elective	4	Direct

DRFT 115 (3) – Engineering Graphics	3	EDSGN 100S (3) – Introduction to Engineering Design	Major Requirement	3	Sub
PHYS 241 (3) – Statics	3	E MCH 211 (3) – Statics	Requirement (GN) and Major Requirement or Elective	3	Sub
ELEC 291 (3) – Linear Circuit Analysis	3	EE 211 (3)	Major Requirement	3	Sub
ENGL 101 (3) – English I	3	ENGL 015 (3) – Composition and Rhetoric	General Education Writing/Speaking Requirement (GWS)	3	Direct
ENGL 102 (3) – English II	3	ENGL 202B for ENGL 202C (3) – Technical Writing	General Education Writing/Speaking Requirement (GWS)	3	Substitution
COMM 201 (3) – Speech	3	CAS 100A – Speech Communications	General Education Writing/Speaking Requirement (GWS)	3	Direct
Humanities Elective (GH) COMM 101 ENGL 180 (INTERDOMAIN) ENGL 204 ENGL 209 HIST 121 (IL) HIST 201 (US)	6	General Education Humanities (GH)	General Education Humanities (GH)	6	Direct

Art Elective (GA) ARTS 101 ARTS 102 ARTS 104 ARTS 105 ARTS 110 ARTS 112 ARTS 114 ARTS 165	6	Art Elective	Art Elective (GA)	6	Direct
Social and Behavioral Science (GS) ECON 101 ECON 102	3 + 3	ECON 104 (GS) – Intro Macroeconomics ECON 102 (GS) – Intro Microeconomics	Major Required Course and General Education Social and Behavioral Science	6	Direct
General Health and Wellness (GHW) HLTH 120 PHED 102 PHED 125 PHED 131 PHED 134 PHED 140 PKMT 110	3	General Health and Wellness	General Health and Wellness	3	Direct and Sub
Science Elective (GN) BIOL 103, 115, 116, 120, 121 CHEM 100, 101, 102, 112, 125 PHSC 110, 114, 120, 123 PHYS 101, 102, 221, 222, 242	3-4	General Education Natural Sciences Requirement (GN)	General Education Natural Sciences Requirement (GN)	3	Direct

TOTAL CREDITS	75			74	
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Penn State requires that students complete 18 credits of Social Science (GS), Humanities (GH), and Arts (GA) credits. These course selections need to be balanced among the three areas and meet Penn State's International (IL) and US cultures requirements. We recommend that BC3 students take 12 of these credits (4 courses) prior to transferring to Penn State Behrend, and we recommend the above choice of courses to meet the Penn State GS, GH, GA, US, and IL requirements.

ALWAYS CHECK THE PSU TRANSFER TOOL FOR EQUIVALENCIES

[Transfer Credit Tool \(psu.edu\)](#)

<https://public.lionpath.psu.edu>

Addendum B

Program to Program Articulation

Butler County Community College Associate in Engineering

Electrical and Computer Engineering Technology, Mechanical Engineering Technology, Plastics Engineering Technology

Program delivered at Penn State Behrend

BC3 Engineering Engineering, AS Butler County Community College (bc3.edu)		Penn State Behrend Engineering (BCEGN) School of Engineering Penn State Behrend (psu.edu)			
Course Requirements	Credits	Course	Requirement	Credits	Direct/ Substitution
MATH 101 (3) – College Algebra	3	MATH 21 (3) – College Algebra	General Education Quantification Requirement (GQ) and Major Requirement	3	Direct
MATH 102 (3) – Trigonometry and Functions	3	MATH 41 (3) - Trigonometry and Analytic Geometry	General Education Quantification Requirement (GQ) and Major Requirement	3	Substitution
MATH 221 (4) – Calc and Analytic Geometry I	4	MATH 083 (4) – Technical Calculus	General Education Quantification	4	Direct

			Requirement (GQ) and Major Requirement		
MATH 222 (4) – Calc and Analytic Geometry II	4	MATH 210 (4) – Calculus with Engineering Technology applications	General Education Quantification Requirement (GQ) and Major Requirement	4	Direct
CHEM 101 (4) – Chemistry I	4	CHEM 110 (3) Chemical Principles CHEM 111 (1) – Experimental Chemistry	Requirement (GN) and Major Requirement or Elective	4	Direct
PHYS 101 (4) – Physics I	4	PHYS 250 (4) – Introductory Physics I	Requirement (GN) and Major Requirement or Elective	4	Direct
PHYS 102 (4) – Physics II	4	PHYS 251 (4) – Introductory Physics II	Requirement (GN) and Major Requirement or Elective	4	Direct
ENGL 101 (3) – English I	3	ENGL 015 (3) – Composition and Rhetoric	General Education Writing/Speaking Requirement (GWS)	3	Direct
ENGL 102 (3) – English II	3	ENGL 202B (3) for ENGL 202C– Technical Writing	General Education Writing/Speaking Requirement (GWS)	3	Substitute
COMM 201 (3) – Speech	3	CAS 100 – Speech Communications	General Education Writing/Speaking Requirement (GWS)	3	Direct
Humanities Elective (GH) COMM 101	6	General Education Humanities (GH)	General Education	6	Direct

ENGL 180 (INTERDOMAIN) ENGL 204 ENGL 209 HIST 121 (IL) HIST 201 (US)			Humanities (GH)		
Art Elective (GA) ARTS 101 ARTS 102 ARTS 104 ARTS 105 ARTS 110 ARTS 112 ARTS 114 ARTS 165	6	Art Elective	Art Elective (GA)	6	Direct
Social and Behavioral Science (GS) ECON 101 ECON 102	3 + 3	ECON 104 (GS) – Intro Macroeconomics ECON 102 (GS) – Intro Microeconomics	Major Required Course and General Education Social and Behavioral Science	6	Direct
General Health and Wellness (GHW) HLTH 120 PHED 102 PHED 125 PHED 131 PHED 134 PHED 140	3	General Health and Wellness	General Health and Wellness	3	Direct and Sub

PKMT 110					
Science Elective (GN) BIOL 103, 115, 116, 120, 121 CHEM 100, 101, 102, 112, 125 PHSC 110, 114, 120, 123 PHYS 101, 102, 221, 222, 242	3-4	General Education Natural Sciences Requirement (GN)	General Education Natural Sciences Requirement (GN)	3	Direct
TOTAL CREDITS	Over 60			Over 60	

Penn State requires that students complete 18 credits of Social Science (GS), Humanities (GH), and Arts (GA) credits. These course selections need to be balanced among the three areas and meet Penn State’s International (IL) and US cultures requirements. We recommend that BC3 students take 12 of these credits (4 courses) prior to transferring to Penn State Behrend, and we recommend the above choice of courses to meet the Penn State GS, GH, GA, US, and IL requirements.

Note: Completing MATH 221 and MATH 222 at BCCC is recommended, but not required

ALWAYS CHECK THE PSU TRANSFER TOOL FOR EQUIVALENCIES

[Transfer Credit Tool \(psu.edu\)](https://public.lionpath.psu.edu)

<https://public.lionpath.psu.edu>

[MET](#)

DRFT 108 (3) - 3-D Geometric Modeling/SolidWorks®	3	EG T 120 (3) – Intro to Graphics & Solid Modeling	Major Requirement	3	Direct
MECH 103 (3) – Mfg Processes & Materials	3	IET 101 (3) – Mfg Materials Processes & Lab	Major Requirement	3	Substitution
DRFT 112 (3) - Geometric Dimensioning and Tolerancing (GD & T)	3	EG T 121 (3) – Applied Solid Modeling	Major Requirement	3	Substitution
MECH 202 (3) – Mechanics I	3	MCH T 111 (3) – Mechanics for Technology: Statics	Major Requirement	3	Direct
MECH 208 (3) – Strength of Materials	3	MCH T 213 (3) – Strength/Properties of Materials	Major Requirement	3	Substitution

[ECET](#)

ELEC 110 (7) – Electrical Fundamentals & ELEC 291 (3) – Linear Circuit Analysis	7 or 3	EET 101/109 (4) – Electrical Circuits I and lab & EET 114/118 (5) – Electrical Circuits II and lab	Major Requirement	4 or 5	Substitution
ELEC 225 (4) – Digital Electronics	4	CMPET 117/120 (4) –Digital Electronics and lab	Major Requirement	4	Substitution
ELEC 221 (5) – Electronics I	5	EET 210/205 (3) – Fundamentals of Semiconductors and lab	Major Requirement	3	Substitution
ELEC 240 (4) – Fundamentals of Microprocessors	4	CMPET 211 (3) – Processors and DSP	Major Requirement	3	Substitution
ELEC 222 (5) – Electronics II	5	EET 216/221 (4) – Linear Electronic Circuits and lab	Major Requirement	4	Substitution
DRFT 120 (4) – Introduction to CADD OR DRFT 108 (3) – 3-D Geometric Modeling/SolidWorks	4 or 3	EG T 119 (2) – Intro to CAD for ECET	Major Requirement	2	Substitution

[PLET](#)

COMP 230 (3) – Programming in C++ for Scientists and Engineers	3	PL ET 050 (2) – Computer Applications for PLET	Major Requirement	2	Substitution
MECH 208 (3) – Strength of Materials	3	MET 213 – Strength & Properties of Materials	Major Requirement	3	Substitution
DRFT 108 (3) – 3D Geometric Modeling & DRFT 115 (3) – Engineering Graphics <i>(** Both of these course must be taken at BCCC in order to be accepted for credit at PSB)</i>	6	EGT 120 (3) – Intro Graphics & Solid Modeling & EGT 121 (3) – Applied Solid Modeling	Major Requirement	3	Substitution
MECH 202 (3) – Mechanics I (Technical Statics)	3	MCH T 111(3) – Mechanics for Technology: Statics	Major Requirement	3	Direct
CHEM 221 (4) – Organic Chemistry I		PLET Technical Elective CHEM XFRGEN	PLET Elective	4	Substitute

Addendum B

Program to Program Articulation

Butler County Community College Associate

Penn State Baccalaureate of Arts in Humanities and Social Science: Creative Writing, Digital Media Arts and Technology, English, General Arts and Sciences, History, Political Science

Program delivered at Penn State Behrend

<p align="center">BC3 Business and Entrepreneurship General Studies/General AA Butler County Community College (bc3.edu)</p>		<p align="center">Penn State Behrend Business (BCBUS_BS) School of Humanities and Social Sciences Penn State Behrend (psu.edu)</p>			
Course Requirements	Credits	Course	Requirement	Credits	Direct/ Substitution
<u>ENGL 101 - College Writing</u>	3	ENGL 15 - Rhetoric and Composition	General Education Writing/Speaking Requirement (GWS)	3	Direct
<u>COMM 201 - Speech</u>	3	CAS 100A-Effective Speech	General Education (GWS)	3	Direct
<u>COMP 210 - Productivity Applications</u>	3	CMPSC 100-Comp Funds and Apps	BC3 requirement	3	Direct/Needed for BC3 AS
<u>ENGL 102 - Research Writing</u>	3	ENGL 202B – Effective Writing: Business Writing	General Education Writing and Speaking (GWS)	3	Direct
Math Elective (GQ)	6	General Education Quantification (GQ)	General Education	6	Direct

MATH 101 MATH 102 MATH 107 MATH 117 MATH 125 MATH 140 MATH 182 MATH 221 MATH 222 MATH 230		There are many more options, please check Penn State transfer credit tool. Transfer Credit Tool (psu.edu)	Quantification (GQ)		
Humanities Elective (GH) COMM 101 ENGL 180 (INTERDOMAIN) ENGL 204 ENGL 209 HIST 121 (IL) HIST 201 (US) ENGL 180 ENGL 203 ENGL 204 ENGL 207 ENGL 209 ENGL 214 ENGL 215 ENGL 216 ENGL 220	6	General Education Humanities (GH) There are many more options, please check Penn State transfer credit tool. Transfer Credit Tool (psu.edu)	General Education Humanities (GH)	6	Direct

Art Elective (GA) ARTS 101 ARTS 102 ARTS 104 ARTS 105 ARTS 110 ARTS 112 ARTS 114 ARTS 165	6	Art Elective There are many more options, please check Penn State transfer credit tool. Transfer Credit Tool (psu.edu)	Art Elective (GA)	6	Direct
Social and Behavioral Science (GS) COMM 101 COMM 121 COMM 210 PSYC 201 PSYC 202 SOC 211 SOC 212	6	Social Science Elective Transfer Credit Tool (psu.edu)	General Education Social and Behavioral Science (GS)	6	Direct
General Health and Wellness (GHW) HLTH 120 PHED 102 PHED 125 PHED 131 PHED 134 PHED 140 PKMT 110	3	General Health and Wellness	General Health and Wellness (GHW)	3	Direct

Science Elective (GN) BIOL 103, 115, 116, 120, 121 CHEM 100, 101, 102, 112, 125 PHSC 110, 114, 120, 123 PHYS 101, 102, 221, 222, 242	6	General Education Natural Sciences Requirement (GN) There are many more options, please check Penn State transfer credit tool. Transfer Credit Tool (psu.edu)	General Education Natural Sciences Requirement (GN)	6	Direct
TOTAL CREDITS	60			60	

* BC3 requires students to take courses from three different groups: Science, Social Science, and Humanities. This includes specifically Literature and History needed within the BC3 degree for completion. The courses listed above; in these groupings all directly fulfill these academic requirements.

*For students interested in the B.A. in Psychology, it is suggested that level two of a language is completed before attending Behrend

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[Transfer Credit Tool \(psu.edu\)](https://public.lionpath.psu.edu)

<https://public.lionpath.psu.edu>

Addendum B

Program to Program Articulation

Butler County Community College Science and Math Programs

Penn State Baccalaureate of Science in Chemistry, Environmental Science, Interdisciplinary Science and Business, Mathematics, Physics, and Science

Program delivered at Penn State Behrend

BC3 Science and Math Science & Math Programs Butler County Community College (bc3.edu)		Penn State Behrend Science (BCSCN) School of Science Penn State Behrend (psu.edu)			
Course Requirements	Credits	Course	Requirement	Credits	Direct/ Substitution
MATH 221 – Calc and Analytic Geometry I	4	MATH 140 (4) – Calculus I	General Education Quantification Requirement (GQ) and Major Requirement	4	Direct
MATH 222 – Calc and Analytic Geometry II	4	MATH 141 (4) – Calculus II	General Education Quantification Requirement (GQ) and Major Requirement	4	Direct
MATH 223 – Calc and Analytic Geometry III	4	MATH 230 (4) – Calculus III	General Education Quantification Requirement (GQ) and Major Requirement	4	Sub
MATH 224-Differential Equations	3	MATH 250-Differential Equations	General Education	3	Direct

			Quantification Requirement (GQ) (check academic plan to see if it is needed for the major interest)		
MATH 230- Linear Algebra	2	MATH 220-Matrices	General Education Quantification Requirement (GQ) (check academic plan to see if it is needed for the major interest)	2	Direct
CHEM 101 – Chemistry I	4	CHEM 110 (3) Chemical Principles CHEM 111 (1) – Experimental Chemistry	Requirement (GN) and Major Requirement or Elective	4	Direct
CHEM 102 – Chemistry II	4	CHEM 112 CHEM 113	Requirement (GN) and Major Requirement or Elective	4	Direct
PHYS 221 – Engineering Physics I	4	PHYS 211 (4) – Physics: Mechanics	Requirement (GN) and Major Requirement or Elective	4	Direct
PHYS 222 – Engineering Physics II	4	PHYS 212 (4) – Physics: Electricity & Magnetism	Requirement (GN) and Major Requirement or Elective	4	Direct
ENGL 101 – English I	3	ENGL 015 (3) – Composition and Rhetoric	General Education Writing/Speaking Requirement (GWS)	3	Direct

ENGL 102 – English II	3	ENGL 202B (3) for ENGL 202C – Technical Writing	General Education Writing/Speaking Requirement (GWS)	3	Substitution
COMM 201 – Speech	3	CAS 100A – Speech Communications	General Education Writing/Speaking Requirement (GWS)	3	Direct
Humanities Elective (GH) COMM 101 ENGL 180 (INTERDOMAIN) ENGL 204 ENGL 209 HIST 121 (IL) HIST 201 (US)	6	General Education Humanities (GH)	General Education Humanities (GH)	6	Direct
Art Elective (GA) ARTS 101 ARTS 102 ARTS 104 ARTS 105 ARTS 110 ARTS 112 ARTS 114 ARTS 165	6	Art Elective	Art Elective (GA)	6	Direct
Social and Behavioral Science (GS) ECON 101 ECON 102 COMM 101	6	Approved Social Sciences (GS)	Major Required Course and General Education Social and Behavioral Science	6	Direct

COMM121 COMM215 CRIM 100 CRIM 200 GEOG 101 PSYC 201 PSYC 202 SOC 211 SOC 212					
General Health and Wellness (GHW) ALL PHED COURSES	3	General Health and Wellness	General Health and Wellness	3	Direct and Sub
Science Elective (GN) BIOL 103, 115, 116, 120, 121, 201, 131, 132 CHEM 100, 101, 102, 112, 221, 222 125 PHSC 110, 114, 120, 123 PHYS 101, 102, 221, 222, 242	6 Varies depending on major, please see PSU bulletin to see which courses to register.	General Education Natural Sciences Requirement (GN)	General Education Natural Sciences Requirement (GN)	6	Direct Will Sub to meet major requirement, if needed
TOTAL CREDITS	64		64		

Penn State requires that students complete 18 credits of Social Science (GS), Humanities (GH), and Arts (GA) credits. These course selections need to be balanced among the three areas and meet Penn State's International (IL) and US cultures requirements. We recommend that BC3 students take 12 of these credits (4 courses) prior to transferring to Penn State Behrend, and we recommend the above choice of courses to meet the Penn State GS, GH, GA, US, and IL requirements.

For Interdisciplinary Science and Business, use PSU Bulletin to see what additional courses will be needed.

[Interdisciplinary Science and Business, B.S. | Penn State \(psu.edu\)](#)

ALWAYS CHECK THE PSU TRANSFER TOOL FOR EQUIVALENCIES

[Transfer Credit Tool \(psu.edu\)](#)

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