

ARTICULATION AGREEMENT
IN
PLASTICS ENGINEERING TECHNOLOGY
BETWEEN
BUTLER COUNTY COMMUNITY COLLEGE
AND
PENN STATE ERIE, THE BEHREND COLLEGE

I. PURPOSE

Penn State Erie, The Behrend College, and Butler County Community College (BCCC) together establish this articulation agreement allowing graduates of BCCC's Associate in Applied Science programs in Chemistry, Engineering, and Mathematics entry into Behrend's Plastics Engineering Technology program. Upon completion of one of these associate degree programs at BCCC, the student will enter Penn State Behrend's School of Engineering to complete the upper division plastics engineering technology course requirements as specified by that institution. Successful completion of these requirements will lead to a baccalaureate degree in Plastics Engineering Technology (PLET) from Penn State Behrend. The agreement is being created in an effort to fulfill the following objectives.

1. To provide an educational pathway leading to a baccalaureate degree in the plastics field for the diverse body of associate degree students enrolled at BCCC.
2. To allow a student who has not yet decided among various disciplines additional time to decide while completing an associate's degree from the variety of the programs offered at BCCC. During this time the student may also ascertain whether their abilities and interests lie in the field of plastics engineering technology.
3. To provide the student with a planned sequence of courses which, if completed successfully, would guarantee the student acceptance at a baccalaureate level, degree granting engineering school. By following the planned sequence the student can normally expect to complete the baccalaureate degree in five semesters at Behrend. In some instances the student may also obtain a business minor in the same period.
4. To allow those qualified students to receive an advanced technical education at lower cost.

II. PROCEDURES

Counseling, admission and the transfer of students in this program will be proposed through the application of the following procedures and policies:

1. Upon completion of the associates degree program, a student becomes a candidate for transfer if the student has maintained a quality point average of 2.7 or better (4.0 = A) at BCCC and is recommended (by letter) for transfer by BCCC. In special cases a recommendation from the Dean at BCCC may be considered. Penn State Behrend may require a higher quality point average because of space availability

or changes in programs. The change in quality point average will take effect with those students entering BCCC in the fall semester after the institution has been notified.

- The individual student requests an application from the Admissions Office of Penn State Behrend in September of the student's second year at BCCC. The request should include a statement that the application is for the PLET program. The application should clearly indicate that the student is applying for the PLET program and should be submitted no later than November 30. The completed application should be supported by the following credentials: final high school record; two copies of the official BCCC transcript including all grades earned through the second semester; a schedule of courses for the third and fourth semesters; a recommendation by a designated official of BCCC that the student should be admitted to the PLET program. The application and supporting credentials will be evaluated by the Admissions Office and the School of Engineering Office at Penn State Behrend. If the applicant meets the minimum requirements, the applicant will be offered conditional admission to Penn State Behrend in the PLET program commencing with the subsequent fall semester.

Upon completion of the associate degree program at BCCC, two copies of the final official transcripts of work taken at BCCC should be forwarded to the Admissions Office. The applicant's admission to Penn State Behrend will be changed from a conditional basis to a permanent basis if: the student has maintained an overall average of 2.7 or that which is required by the Agreement at the time the student enters the program at BCCC; is in good standing at BCCC; and has fulfilled all conditions, if any, specified in the student's provisional admission.

- An entering student at BCCC who plans to follow the PLET articulation program will be enrolled in either the chemistry, engineering, or math associate degree curriculums at BCCC and should complete the associate degree program prior to matriculation at Penn State Behrend. The table below indicates how courses successfully completed at BCCC with a C or better will be applied in the Plastics Engineering Technology curriculum. Descriptions of these courses are published in the BCCC and The Pennsylvania State University catalogs. These courses must be completed by all students transferring to Penn State Behrend seeking a Plastics Engineering Technology baccalaureate degree with a grade of "C" or better.

BCCC COURSE	PENN STATE EQUIVALENT – PLET PROGRAM
Mathematics and Computer Science	
COMP 230 (3) – Programming in C++ for Scientists and Engineers	PL ET 050 (2) – Computer Applications for PLET
MATH 221 (4) – Calculus and Analytic Geometry I	MATH 140 (4) – Calculus I
MATH 222 (4) – Calculus and Analytic Geometry II	MATH 141 (4) – Calculus II
MATH 224 (3) – Differential Equations	MATH 250 (3) – Ordinary Differential Equations (applies in PLET program as Math 211 (3) – Int Cal & Diff Equations)
Science Courses	
CHEM 101 (4) – Chemistry I	CHEM 110 (3) Chemical Principles & CHEM 111 (1) – Experimental Chemistry
CHEM 102 (4) – Chemistry II	CHEM 112 (3) – Chemical Principles II CHEM 113 (1) – Experimental Chemistry II (Applies in PLET program as a GN Elective).
CHEM 221 (4) – Organic Chemistry I	PLET Technical Elective

MECH 208 (3) – Strength of Materials	MCH T 213 – Strength & Properties of Materials
PHYS 101 (4) – Physics I	PHYS 250 (4) – Introductory Physics I
PHYS 221 (4) – Engineering Physics I	PHYS 211 (4) – Mechanics (applies to the PHYS 250 requirement in PLET program)
PHYS 241 (3) - Statics	MCH T 111(3) – Mechanics for Technology: Statics
Engineering Technology Courses	
DRFT 108 (3) – 3D Geometric Modeling & DRFT 115 (3) – Engineering Graphics (** Both of these course must be taken at BCCC in order to be accepted for credit at PSB)	METBD 110 (3) – Intro Graphics & Solid Modeling & EGT 121 (3) – Applied Solid Modeling
MECH 202 (3) – Mechanics I (Technical Statics)	MCH T 111(3) – Mechanics for Technology: Statics
Other	
ENGL 101 (3) – English I	ENGL 015 (3) – Composition and Rhetoric
ENGL 102 (3) - English II	ENGL 202C (3) – Technical Writing
COMM 201 (3) - Speech	CAS 100 (3) – Speech Communications
ECON 101 (3) – Principles of Economics: Macro Approach	ECON 004 (3) – Macroeconomics
ECON 102 (3) – Principles of Economics: Micro Approach	ECON 002 (3) – Microeconomics
HLTH 120(3) or PHED 125 (3)	BB H/KINES (3) – Health and Physical Education
Social Sciences, Humanities, and Arts. Should select equivalent BCCC courses that meet the S/H/A requirements of Penn State, as well as the international and U.S. cultures requirements.	S/H/A (9) – Social Science, Humanities, and Arts. Students can transfer up to 18 credits of SHA electives..

4. Penn State requires all students admitted to baccalaureate degree programs to have completed two (2) units of a foreign language at the high school level. Students entering the PLET program under the guidelines of this agreement who have not met this language requirement will be required to satisfy the language requirement before they will be eligible to graduate from the PLET program.
5. The BCCC will promptly notify Behrend upon any substantive curriculum modification to the above mentioned associate programs, and further agrees that the terms of this agreement will no longer apply unless Behrend provides written approval that the curriculum changes do not alter the intent of this agreement.
6. The Agreement should be reviewed every five years and the tables in Item 3 revised as necessary. All revisions are to be agreed to by each institution’s institutional representatives.
7. The terms of this agreement shall remain in effect, except as stipulated in certain previous terms listed herein, until terminated by either party. Any party may terminate the agreement, with or without cause, on the provision of 120 days written notice to the other parties.
8. This agreement constitutes the entire agreement and terms of understanding among parties named herein, and supersede any other prior agreements or understandings among parties.

III. AGREEMENT SIGNATURES

The Pennsylvania State University and BCCC have entered this agreement on the indicated dates and witnessed by the signatures below:

John J. Romano 5/27/09
John J. Romano Date
Vice President for Commonwealth Campuses
The Pennsylvania State University

NC Neupauer 4/29/2009
Nicholas C. Neupauer Date
President
Butler County Community College

Robert N. Pangborn 5/28/09
Robert N. Pangborn Date
Vice President and Dean, Undergraduate
Education
The Pennsylvania State University

Frances Spigelmyer 4/29/09
Frances Spigelmyer Date
Vice President Academic Affairs
Butler County Community College

Jack Burke 5/6/09
Jack Burke Date
Chancellor
Penn State Erie, The Behrend College

Matt Kovac 4/29/09
Matt Kovac Date
Interim Dean of Natural Sciences and
Technology
Butler County Community College

Ralph M. Ford 4/29/09
Ralph M. Ford Date
Director, School of Engineering
The Pennsylvania State University

John Beaumont 4/29/09
John Beaumont Date
Program Chair, Plastics Engineering Technology
Penn State Erie, The Behrend College

Appendices – Recommended Scheduling Patterns

Recommended Scheduling Pattern for BCCC Chemistry Students

		Credits	College
GENERAL EDUCATION			
Health & Wellness (Min. 3 Credits Required at PSB)			
HLTH 120 or PHED 125		3	BCCC
Natural Science (Min. 9 Credits Required at PSB)			
PHYS 221 or PHYS 101	Physics	4	BCCC
CHEM 101	Chemistry I	4	BCCC
CHEM 102	Chemistry II	4	BCCC
CHEM 221	Organic Chem I	4	BCCC
CHEM 222	Organic Chem II	4	BCCC
English (9 Credits)			
ENG 101	English I	3	BCCC
ENG 102	English II	3	BCCC
COMM 201	Speech	3	BCCC
Mathematics (12 Credits)			
MATH 221	Calculus I	4	BCCC
MATH 222	Calculus II	4	BCCC
MATH 224	Differential Equations	3	BCCC
Social Science/Humanities/Arts⁽¹⁾ (Min. 18 Credits Required at PSB per Penn State)			
Social Science⁽¹⁾ (6 Credits)			
	Elective	3	BCCC
	Elective	3	PSB
Humanities⁽¹⁾ (6 Credits)			
	Elective	3	BCCC
	Elective	3	PSB
Arts⁽¹⁾ (6 Credits)			
	Elective	6	BCCC or PSB
TECHNICAL ELECTIVES (3 credits)			
	COMP 230 (suggested)	3/4	BCCC
The courses designated as BCCC are suggested to be taken at BCCC. Courses designated as PSB/BCCC are suggested to be taken at PSB, but can be taken at BCCC.			
All Students transferring into the PLET program at Penn State Behrend will be required to complete five semesters of courses at PSB.			
⁽¹⁾ Penn State requires that students complete 6 credits of arts (GA), 6 credits of humanities (GH) and 6 credits of Social & Behavioral science (GS). The courses should include 3 credits of United States cultures (US) and 3 credits of International Cultures (IL) which can be used to satisfy part of the general education requirements. A student looking to transfer courses to Penn State Behrend for S/H/A credits should make sure that they meet Penn State University GA/GH/GS requirements. A student should have a minimum of 6 GA/GH/GS prior to coming to PSB.			

		Credits	College
MAJOR			
Management			
MGMT 409	Project Management for Engineers	3	PSB
Engineering & Technology			
COMP 230	Programming	3	BCCC
EGT 120	Intro Graphics & Solids Modeling	3	PSB
EGT 121	Applied Solids Modeling	3	PSB
MCH T 111	Statics	3	PSB
MCH T 213	Strength of Materials	3	PSB
Plastics			
PL ET 205	Intro to Plastics	3	PSB
PL ET 222	Intro to Plastics Processing	4	PSB
PL ET 225	Instr., Control & Automation	2	PSB
PL ET 206W	Plastics Materials and Properties	3	PSB
PL ET 227	Plastics Processing & Statistics	4	PSB
PL ET 232	Intro to Part & Tool Design	3	PSB
PL ET 235	Tool Design and Machining	2	PSB
PL ET 304	Plastics Material Properties & Applications	3	PSB
PL ET 330	Advanced Tooling & Rheology	4	PSB
PL ET 366	Fluid & Thermal Sciences	3	PSB
PL ET 323	Packaging Processes	3	PSB
PL ET 345	Heat Transfer	2	PSB
PL ET 350	Design of Plastic Parts	4	PSB
PL ET 494	Plastics Projects	3	PSB
PL ET 430	Packaging Design	2	PSB
PL ET 400	Plastics Management Issues	3	PSB
PL ET	Plastics Management Elective	3	PSB
PL ET	Technical Elective	3	PSB
MET 418	Finite Element Analysis for Plastics	3	PSB

Butler County Community College/Penn State Behrend
Recommended Scheduling Pattern for BCCC Engineering Students

		Credits	College
GENERAL EDUCATION			
Health & Wellness (Min. 3 Credits Required at PSB)			
HLTH 120 or PHED 125		3	BCCC
Natural Science (Min. 9 Credits Required at PSB)			
PHYS 221 or PHYS 101	Physics	4	BCCC
CHEM 101	Chemistry I	4	BCCC
CHEM 102 ⁽¹⁾	Chemistry II	4	BCCC
English (9 Credits)			
ENG 101	English I	3	BCCC
ENG 102	English II	3	BCCC
COMM 201	Speech	3	BCCC
Mathematics (12 Credits)			
MATH 221	Calculus I	4	BCCC
MATH 222	Calculus II	4	BCCC
MATH 224	Differential Equations	3	BCCC
Social Science/Humanities/Arts⁽²⁾ (Min. 18 Credits Required at PSB per Penn State)			
ECON 101/102	Macro Economics	3	BCCC
	Elective	3	BCCC or PSB
Humanities⁽²⁾ (6 Credits)			
	Elective	3	BCCC
	Elective	3	PSB
Arts⁽²⁾ (6 Credits)			
	Elective	6	BCCC or PSB
TECHNICAL ELECTIVES (6/8 credits)			
	DRFT 108 & MECH 208 suggested	6/8	BCCC
The courses designated as BCCC are suggested to be taken at BCCC. Courses designated as PSB/BCCC are suggested to be taken at PSB, but can be taken at BCCC.			
All Students transferring into the PLET program at Penn State Behrend will be required to complete five semesters of courses at PSB.			
⁽¹⁾ If CHEM 102 is not taken at BCCC, the transfer student will have to take a minimum of a 2 credit GN science elective at PSB.			
⁽²⁾ Penn State requires that students complete 6 credits of arts (GA), 6 credits of humanities (GH) and 6 credits of Social & Behavioral science (GS). The courses should include 3 credits of United States cultures (US) and 3 credits of International Cultures (IL) which can be used to satisfy part of the general education requirements. A student looking to transfer courses to Penn State Behrend for S/H/A credits should make sure that they meet Penn State University GA/GH/GS requirements.			

		Credits	College
MAJOR (76)			
Management			
MGMT 409	Project Management for Engineers	3	PSB
Engineering & Technology			
COMP 230	Programming	3	BCCC
DRFT 115 & DRFT 108 ⁽³⁾	Engineering Graphics & 3-D Geometric Modeling/Solid-Works	6	BCCC
MECH 202 or PHYS 241	Statics	3	BCCC
MECH 208	Strength of Materials	3	BCCC
Plastics			
PL ET 205	Intro to Plastics	3	PSB
PL ET 222	Intro to Plastics Processing	4	PSB
PL ET 225	Instr., Control & Automation	2	PSB
EG T 205	Transfer to Pro-E	1	PSB
PL ET 206W	Plastics Materials and Properties	3	PSB
PL ET 227	Plastics Processing & Statistics	4	PSB
PL ET 232	Intro to Part & Tool Design	3	PSB
PL ET 235	Tool Design and Machining	2	PSB
PL ET 304	Plastics Material Properties & Applications	3	PSB
PL ET 330	Advanced Tooling & Rheology	4	PSB
PL ET 366	Fluid & Thermal Sciences	3	PSB
PL ET 323	Packaging Processes	3	PSB
PL ET 345	Heat Transfer	2	PSB
PL ET 350	Design of Plastic Parts	4	PSB
PL ET 494	Plastics Projects	3	PSB
PL ET 430	Packaging Design	2	PSB
PL ET 400	Plastics Management Issues	3	PSB
PL ET	Plastics Management Elective	3	PSB
PLET	Technical Electives	6	PSB
MET 418	Finite Element Analysis for Plastics	3	PSB
⁽³⁾ A student at BCCC must complete <u>both</u> DRFT 115 and DRFT 108 in order to substitute for PSB's requirements.			

Recommended Scheduling Pattern for BCCC Math Students

		Credits	College
GENERAL EDUCATION			
Health & Wellness (Min. 3 Credits Required for PL ET)			
HLTH 120 or PHED 125		3	BCCC
Natural Science (Min. 9 Credits Required for PL ET)			
PHYS 221 or PHYS 101	Physics (as BCCC Group III Elective)	4	BCCC
CHEM 101	Chemistry I (as BCCC Group III Elective)	4	BCCC
English (9 Credits)			
ENG 101	English I	3	BCCC
ENG 102	English II	3	BCCC
COMM 201	Speech	3	BCCC
Mathematics (12 Credits)			
MATH 221	Calculus I	4	BCCC
MATH 222	Calculus II	4	BCCC
MATH 224	Differential Equations	3	BCCC
Social Science/Humanities/Arts⁽¹⁾ (Min. 18 Credits required for PL ET)			
Social Science⁽¹⁾ (6 Credits)			
	BCCC Group II Elective	6	BCCC
Humanities⁽¹⁾ (6 Credits)			
	BCCC Group I Elective	6	BCCC
Arts⁽¹⁾ (6 Credits)			
	Elective	6	PSB/BCCC
SUGGESTED ELECTIVES (13 credits)			
DRFT 115 & DRFT 108 ⁽²⁾	Engineering Graphics & 3-D Geometric Modeling/Solid-Works	6	BCCC
MECH 202 or PHYS 241	Statics	3	BCCC
MECH 208	Strength of Materials	3	BCCC
The courses designated as BCCC are suggested to be taken at BCCC. Courses designated as PSB/BCCC are suggested to be taken at PSB, but can be taken at BCCC.			
All Students transferring into the PLET program at Penn State Behrend will be required to complete five semesters of courses at PSB.			
⁽¹⁾ Penn State requires that students complete 6 credits of arts (GA), 6 credits of humanities (GH) and 6 credits of Social & Behavioral science (GS). The courses should include 3 credits of United States cultures (US) and 3 credits of International Cultures (IL) which can be used to satisfy part of the general education requirements. A student looking to transfer courses to Penn State Behrend for S/H/A credits should make sure that they meet Penn State University GA/GH/GS requirements.			

		Credits	College
MAJOR			
Management			
MGMT 409	Project Management for Engineers	3	PSB
Engineering & Technology			
COMP 230	Programming	3	BCCC
EGT 120 ⁽³⁾	Intro Graphics & Solids Modeling	3	PSB
EGT 121 ⁽³⁾	Applied Solids Modeling	3	PSB
MCH T 111 ⁽³⁾	Statics	3	PSB
MCH T 213 ⁽³⁾	Strength of Materials	3	PSB
Plastics			
PL ET 205	Intro to Plastics	3	PSB
PL ET 222	Intro to Plastics Processing	4	PSB
PL ET 225	Instr., Control & Automation	2	PSB
PL ET 206W	Plastics Materials and Properties	3	PSB
PL ET 227	Plastics Processing & Statistics	4	PSB
PL ET 232	Intro to Part & Tool Design	3	PSB
PL ET 235	Tool Design and Machining	2	PSB
PL ET 304	Plastics Material Properties & Applications	3	PSB
PL ET 330	Advanced Tooling & Rheology	4	PSB
PL ET 366	Fluid & Thermal Sciences	3	PSB
PL ET 323	Packaging Processes	3	PSB
PL ET 345	Heat Transfer	2	PSB
PL ET 350	Design of Plastic Parts	4	PSB
PL ET 494	Plastics Projects	3	PSB
PL ET 430	Packaging Design	2	PSB
PL ET 400	Plastics Management Issues	3	PSB
PL ET	Plastics Management Elective	3	PSB
PL ET	Technical Elective	6	PSB
MET 418	Finite Element Analysis for Plastics	3	PSB
⁽²⁾ A student at BCCC must complete <u>both</u> DRFT 115 and DRFT 108 in order to substitute for PSB's requirements. A student taking <u>both</u> DRFT 115 and DRFT 108 as an elective must take EG T 205 (1 credit Transfer to Pro E) at PSB			
⁽³⁾ Not required if the "Suggested Electives" are taken at BCCC			

Recommended Scheduling Pattern at Behrend

PLASTICS ENGINEERING TECHNOLOGY (PLTBD) 2008 Butler Chemistry Transfer

Check sheet for Students graduating from
Butler County Community College with an AS in Chemistry

Fall Semester #5 (15 credits)

MCH T 111 (3:3:0) Mechanics for Technology: Statics
EG T 120 (3:1:4) Intro Graphics & Solids Modeling
PL ET 205 (3:2:1) Intro to Plastics
PL ET 222 (4:3:3) Intro to Plastics Processing
PL ET 225 (2:1:3) Instr., Cont., & Automation

Spring Semester #6 (18 credits)

EG T 121 (3:1:4) Applied Solids Modeling
PL ET 206W(3:2:2) Plastic Materials and Properties
PL ET 227 (4:2:6) Plastics Processing & Statistics
PL ET 232 (3:1:5) Intro to Part & Tool Design
PL ET 235 (2:1:3) Tool Design & Machining
GA, GH, or GS (3:3:0) From General Education

Fall Semester #7 (16 credits)

MCH T 213 (3:3:0) Strength & Properties of Materials
PL ET 304 (3:2:2) Plastic Material Props.& Appl.
PL ET 330 (4:3:3) Adv Tooling & Rheology
PL ET 366 (3:3:0) Fluid & Thermal Sciences
GA, GH, or GS (3:3:0) From General Education

Spring Semester #8 (16 credits)

MET 418 (3:2:3) Finite Element Analysis for Plastic
PL ET 323 (3:2:3) Packaging Processes
PL ET 345 (2:1:2) Heat Transfer
PL ET 350 (4:3:3) Design of Plastic Parts
PL ET 400 (3:3:0) Plastics Management Issues
PL ET 494 (1 cr.) Plastics Projects I

Fall Semester #9 (19 credits)

MANGT 409 (3:3:0) Project Mangt for Engrs
PL ET 494 (2 cr.) Plastics Projects II & III
PL ET 430 (2:1:3) Packaging Design
Tech Elective (3 cr.) From Program List (300 or 400)
Mgmt Elective (3 cr.) Program List (300 or 400 level)
GA, GH, or GS (3:3:0) From General Education List

* A student taking PLET 205 on-line prior to coming to Behrend would take an S/H/A rather than PLET 205 during their 1st semester

** The above assumes that a student transferring from BCCC will have taken all of the suggested BCCC courses identified on the *Recommended Scheduling Pattern for BCCC Math Students transferring to PSB's PLET program* . and that the PLET Program has not changed since the date of the articulation agreement between BCCC & Penn State Erie.

Notes:

- **Bold type** indicates courses requiring a quality grade of C or better.
- *Italic* indicates courses that satisfy both major and General Education requirements.
- **Bold italics** indicates courses requiring a quality grade of C or better and that satisfy both major and General Education requirements.
- GWS, GHA, GQ, GN, GA, GH, and GS are codes used to identify General Education requirements.
- W is the code used to designate courses that satisfy University Writing Across the Curriculum requirements.
- If you have not completed two years of high school study of one foreign language, you must also schedule 3-4 credits of college level foreign language (in addition to your program requirements).
- A PLTBD student must complete general education requirements, the requirements for the major, the number of elective credits required, and earn at least a minimum 2.00 grade-point average.
- General education requirements include 6 credits of arts (GA), 6 credits of humanities (GH), 6 credits of social and behavioral sciences (GS), 3 credits of health and physical activity (GHA), 9 credits of natural sciences (GN), 9 credits of writing/speaking (GWS), and 6 credits of quantification (GQ).
- Also required are 3 credits of United States cultures (US), 3 credits of International Cultures (IL) which can be used to satisfy part of the general education requirements. A (USI) may count for either category, but not both.
- The School of Engineering Advising Handbook is on-line at <http://www.pserie.psu.edu/engineering>.
- University Undergraduate Advising Handbook is on-line at <http://www.psu.edu/dus/handbook/gened.html>.
- Requirement Web page <http://www.psu.edu/advising/requirements.htm>.
- Blue Book Web site <http://www.psu.edu/bulletins/bluebook/>.

For more information contact:

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Plastics Engineering Technology Program Chair
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PLASTICS ENGINEERING TECHNOLOGY (PLTBD) 2008 Butler Mathematics Transfer

Check sheet for Students graduating from
Butler County Community College with an AS in Mathematics

Fall Semester -- (15 credits)

PL ET 205 (3:2:1) Intro to Plastics
PL ET 222 (4:3:3) Intro to Plastics Processing
PL ET 225 (2:1:3) Instr., Cont., & Automation
EG T 205 (1:0:3) Transfer to Pro-E
GA, GH, or GS (3:3:0) From General Education List

Spring Semester -- (18 credits)

PL ET 206W(3:2:2) Plastic Materials and Properties
PL ET 227 (4:2:6) Plastics Processing & Statistics
PL ET 232 (3:1:5) Intro to Part & Tool Design
PL ET 235 (2:1:3) Tool Design & Machining
GA, GH, or GS (3:3:0) From General Education List

Fall Semester - (16 credits)

PL ET 304 (3:2:2) Plastic Material Props.& Appl.
PL ET 330 (4:3:3) Adv Tooling & Rheology
PL ET 366 (3:3:0) Fluid & Thermal Sciences
MANGT 409 (3:3:0) Project Mangt for Engrs

Spring Semester - (16 credits)

MET 418 (3:2:3) Finite Element Analysis for Plastic
PL ET 323 (3:2:3) Packaging Processes
PL ET 345 (2:1:2) Heat Transfer
PL ET 350 (4:3:3) Design of Plastic Parts
PL ET 400 (3:3:0) Plastics Management Issues
PL ET 494 (1 cr.) Plastics Projects I

Fall Semester - (19 credits)

PL ET 494 (2 cr.) Plastics Projects II & III
PL ET 430 (2:1:3) Packaging Design
Tech Elective (3 cr.) From Program List (300 or 400)
Tech Elective (3 cr.) From Program List (300 or 400)
Mgmt Elective (3 cr.) Program List (300 or 400 level)
Science Elective (2 cr.) From General Education List (GN)

* A student taking PLET 205 on-line prior to coming to Behrend would take an S/H/A rather than PLET 205 during their 1st semester

** The above assumes that a student has completed 12 credits of transferable S/H/A's and all of the suggested BCCC courses identified on the *Recommended Scheduling Pattern for BCCC Math Students transferring to PSB's PLET program* . and that the PLET Program has not changed since the date of the articulation agreement between BCCC & Penn State Erie.

Notes:

- **Bold type** indicates courses requiring a quality grade of C or better.
- *Italic* indicates courses that satisfy both major and General Education requirements.
- ***Bold italics*** indicates courses requiring a quality grade of C or better and that satisfy both major and General Education requirements.
- GWS, GHA, GQ, GN, GA, GH, and GS are codes used to identify General Education requirements.
- W is the code used to designate courses that satisfy University Writing Across the Curriculum requirements.
- If you have not completed two years of high school study of one foreign language, you must also schedule 3-4 credits of college level foreign language (in addition to your program requirements).
- A PLTBD student must complete general education requirements, the requirements for the major, the number of elective credits required, and earn at least a minimum 2.00 grade-point average.
- General education requirements include 6 credits of arts (GA), 6 credits of humanities (GH), 6 credits of social and behavioral sciences (GS), 3 credits of health and physical activity (GHA), 9 credits of natural sciences (GN), 9 credits of writing/speaking (GWS), and 6 credits of quantification (GQ).
- Also required are 3 credits of United States cultures (US), 3 credits of International Cultures (IL) which can be used to satisfy part of the general education requirements. A (USI) may count for either category, but not both.
- The School of Engineering Advising Handbook is on-line at <http://www.pserie.psu.edu/engineering>.
- University Undergraduate Advising Handbook is on-line at <http://www.psu.edu/dus/handbook/gened.html>.
- Requirement Web page <http://www.psu.edu/advising/requirements.htm>.
- Blue Book Web site <http://www.psu.edu/bulletins/bluebook/>.

For more information contact:

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PLASTICS ENGINEERING TECHNOLOGY (PLTBD) 2008 Butler Engineering Transfer

Check sheet for Students graduating from
Butler County Community College with an AS in Engineering

Fall Semester -- (15 credits)

PL ET 205 (3:2:1) Intro to Plastics
 PL ET 222 (4:3:3) Intro to Plastics Processing
 PL ET 225 (2:1:3) Instr., Cont., & Automation
 EG T 205 (1:0:3) Transfer to Pro-E
 GA, GH, or GS (3:3:0) *From General Education List*

Spring Semester -- (18 credits)

PL ET 206W(3:2:2) Plastic Materials and Properties
 PL ET 227 (4:2:6) Plastics Processing & Statistics
 PL ET 232 (3:1:5) Intro to Part & Tool Design
 PL ET 235 (2:1:3) Tool Design & Machining
 GA, GH, or GS (3:3:0) *From General Education List*

Fall Semester - (16 credits)

PL ET 304 (3:2:2) Plastic Material Props.& Appl.
 PL ET 330 (4:3:3) Adv Tooling & Rheology
 PL ET 366 (3:3:0) Fluid & Thermal Sciences
 MANGT 409 (3:3:0) Project Mangt for Engrs
 GA, GH, or GS (3:3:0) *From General Education List*

Spring Semester - (16 credits)

MET 418 (3:2:3) Finite Element Analysis for Plastic
 PL ET 323 (3:2:3) Packaging Processes
 PL ET 345 (2:1:2) Heat Transfer
 PL ET 350 (4:3:3) Design of Plastic Parts
 PL ET 400 (3:3:0) Plastics Management Issues
 PL ET 494 (1 cr.) Plastics Projects I

Fall Semester - (13 credits)

PL ET 494 (2 cr.) Plastics Projects II & III
 PL ET 430 (2:1:3) Packaging Design
 Tech Elective (3 cr.) From Program List (300 or 400)
 Tech Elective (3 cr.) From Program List (300 or 400)
 Mgmt Elective (3 cr.) Program List (300 or 400 level)
 GA, GH, or GS (3:3:0) *From General Education List*

* A student taking PLET 205 on-line prior to coming to Behrend would take an S/H/A rather than PLET 205 during their 1st semester

** The above assumes that a student transferring from BCCC will have taken all of the suggested BCCC courses identified on the *Recommended Scheduling Pattern for BCCC Engineering Students transferring to PSB's PLET program and that the PLET Program has not changed since the date of the articulation agreement between BCCC & Penn State Erie.*

Notes:

- **Bold type** indicates courses requiring a quality grade of C or better.
- *Italic* indicates courses that satisfy both major and General Education requirements.
- **Bold italics** indicates courses requiring a quality grade of C or better and that satisfy both major and General Education requirements.
- GWS, GHA, GQ, GN, GA, GH, and GS are codes used to identify General Education requirements.
- W is the code used to designate courses that satisfy University Writing Across the Curriculum requirements.
- If you have not completed two years of high school study of one foreign language, you must also schedule 3-4 credits of college level foreign language (in addition to your program requirements).
- A PLTBD student must complete general education requirements, the requirements for the major, the number of elective credits required, and earn at least a minimum 2.00 grade-point average.
- General education requirements include 6 credits of arts (GA), 6 credits of humanities (GH), 6 credits of social and behavioral sciences (GS), 3 credits of health and physical activity (GHA), 9 credits of natural sciences (GN), 9 credits of writing/speaking (GWS), and 6 credits of quantification (GQ).
- Also required are 3 credits of United States cultures (US), 3 credits of International Cultures (IL) which can be used to satisfy part of the general education requirements. A (USI) may count for either category, but not both.
- The School of Engineering Advising Handbook is on-line at <http://www.pserie.psu.edu/engineering>.
- University Undergraduate Advising Handbook is on-line at <http://www.psu.edu/dus/handbook/gened.html>.
- Requirement Web page <http://www.psu.edu/advising/requirements.htm>.
- Blue Book Web site <http://www.psu.edu/bulletins/bluebook/>.

For more information contact:

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 (814) 898-6482

**PLASTICS ENGINEERING TECHNOLOGY (PLTBD)
+ Management Minor
2008 Butler Engineering Transfer**

Check sheet for Students graduating from
Butler County Community College with an AS in Engineering

Fall Semester -- (15 credits)

PL ET 205 (3:2:1) Intro to Plastics
 PL ET 222 (4:3:3) Intro to Plastics Processing
 PL ET 225 (2:1:3) Instr., Cont., & Automation
 EG T 205 (1:0:3) Transfer to Pro-E
GA, GH, or GS (3:3:0) From General Education List
GA, GH, or GS (3:3:0) From General Education List

Spring Semester -- (18 credits)

PL ET 206W(3:2:2) Plastic Materials and Properties
 PL ET 227 (4:2:6) Plastics Processing & Statistics
 PL ET 232 (3:1:5) Intro to Part & Tool Design
 PL ET 235 (2:1:3) Tool Design & Machining
GA, GH, or GS (3:3:0) From General Education List

Fall Semester - (16 credits)

PL ET 304 (3:2:2) Plastic Material Props. & Appl.
 PL ET 330 (4:3:3) Adv Tooling & Rheology
 PL ET 366 (3:3:0) Fluid & Thermal Sciences
 MANGT 409 (3:3:0) Project Mangt for Engrs
 Mgmt Elective (3 cr.) Program List (300 or 400 level)

Spring Semester - (16 credits)

MET 418 (3:2:3) Finite Element Analysis for Plastic
 PL ET 323 (3:2:3) Packaging Processes
 PL ET 345 (2:1:2) Heat Transfer
 PL ET 350 (4:3:3) Design of Plastic Parts
 PL ET 400 (3:3:0) Plastics Management Issues
 PL ET 494 (1 cr.) Plastics Projects I

Fall Semester - (13 credits)

PL ET 494 (2 cr.) Plastics Projects II & III
 PL ET 430 (2:1:3) Packaging Design
 Tech Elective (3 cr.) From Program List (300 or 400)
Mgmt Minor (3:0:0)
Mgmt Minor (3:0:0)
Mgmt Minor (3:0:0)

* The above plan provides for a student transferring from BCCC engineering program to complete the PLET program with a management minor in only five semesters. The above plan requires that the BCCC student take one additional S/H/A elective prior to coming to PSB (This one course is in addition to those required at BCCC and can be taken prior to coming to PSB, during a summer while at PSB or as an overload during one of the semesters at PSB). If a student elects to pursue the above suggested program, they should meet with a PLET program advisor to properly co-ordinate courses for the management minor.

** A student taking PLET 205 on-line prior to coming to Behrend would take an S/H/A rather than PLET 205 during their 1st semester

*** The above assumes that a student transferring from BCCC will have taken all of the suggested BCCC courses identified on the *Recommended Scheduling Pattern for BCCC Engineering Students transferring to PSB's PLET program and that the PLET Program has not changed since the date of the articulation agreement between BCCC & Penn State Erie.*

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