Exhibit 13

TRANSFER ADVISING GUIDE

Bucks County Community College to University of the Sciences in Philadelphia
A.S. Chemistry (1004) → B.S. Chemistry or B.S. Biochemistry or B.S. Pharmaceutical Chemistry

Bucks Associate of Science Chemistry (1004) USciences Bachelor of Science Chemistry or Biochemistry or Pharmaceutical Chemistry

CHEM121 Chemistry I CHEM122 Chemistry II CHEM122 Chemistry II CHEM122 Chemistry II CHEM122 Chemistry II CHEM221 Organic Chemistry II CHEM221 Organic Chemistry II CHEM221 Organic Chemistry II CHEM222 Organic Chemistry II CH214 Principles of Organic Chemistry Lab II CH214 Principles of Organic Chemistry Lab II CH214 Principles of Organic Chemistry II CH214 Principles of Organic Chemistry Lab II COMP110 English Composition I 3 WR101 Writing & Rhetoric I 3 WR102 Writing & Rhetoric II 4 WR122 Calculus II MATH140 Calculus II 4 MA221 Calculus II 4 MA221 Calculus II 4 PY211 Physics I PHYS121 Physics I 4 PY212 Physics II 4 PY212 Physics II 4 PY212 Physics II 4 PY212 Physics II Chemistry Electives: BIOL121 Biological Principles I BIOL122 Biological Principles II 4 BS133 Introductory Biology I Lab BS134 Introductory Biology I Lab BS135 Introductory Biology II I BS130 Introductory Biology II BS131 Introductory Biology II I BS133 Introductory Biology II BS134 Introductory Biology	Bucks Courses	Cr.	USciences Courses	Cr.
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PSYC110 Introduction to Psychology PS101 Introduction to Psychology			PS101 Introduction to Psychology	
SOCI110 Introduction to Sociology SO101 Introduction to Sociology	,		, .,	

Electives (4 credits):			
MATH242 Calculus III	4	MA222 Calculus III	4
Bucks Credits toward AS	61	Credits Accepted	59
Additional Courses Necessary to Enter USciences			
with Junior (U3) Status:			
Choose One:			
[KINS 106,110,116,118,120,122,124,129,	2	PE101/102 Physical Education I/II	1
130,133,134,135,141,142,145,150,154,155,156,			
170,172,175-179,188,189]			
Total Bucks Credits	63	Total Credits Accepted	60

A minimum 2.7 cumulative GPA is required for admission.

A minimum grade of "B" in all science and mathematics courses (Prefixes: CHEM, MATH, PHYS, BIOL). Students who do not meet these minimum grade requirements can still transfer under the terms of this articulation agreement, subject to departmental review and approval.

The courses encompassed in the A.S. degree from Bucks must be completed within the three years preceding matriculation at USciences. Students who take more than 3 years to complete the A.S. degree can still transfer under this articulation agreement, subject to departmental review and approval.

CH120-Orientation for the Chemical Sciences (1 cr) and MA107 - Precalculus (3 cr) will be waived for transfer students transferring to USciences after earning the A.S. in Chemistry (1004). However, the total credits required for graduation (includes transfer credits) will remain unchanged.

Graduation from USciences with a BS degree requires completion of specified courses and a total of 121-136 credit hours, depending upon the degree program. In order to enter USciences with U3 (junior) status and to facilitate the completion of a BS degree in two years of study at USciences, all students are strongly advised to complete more than 60 total credits of course work which is eligible for transfer to USciences. Students interested in transferring to USciences are strongly urged to contact the USciences Admission Office early in their enrollment at Bucks for advising.

In addition to the coursework provided in the above table, the following types of courses will be needed to complete the *General Education Discipline Requirements* in USciences' General Education Curriculum:

- 3 credits in Social Sciences
- 6 credits in Humanities

Some or all of these 9 credits of coursework can be taken at Bucks or after transferring to USciences (currently included in the 3rd and 4th year at USciences). If the 9 credits are taken at Bucks, they should be selected from the following lists:

3 credits in Social Sciences: Select ONE	GenEd Discipline Requirements – Social Sciences
CRIJ 100, 110,115,116,120,130,140,160,210,220,	SO207 Crime, Drugs and Policy
230,250,260,270,275,280,285	EC101, EC201, ECX01
ECON 111,112,120	PO101, POX01
POLI 130, 111,112,120 ,212	
PSYC 100,110,160,180,181,185,190,200,205,215,	
230,270,280	PS
SOCI 120,130,140,150,160	SO, AN
SSWK 115,140,215,255	so
6 credits in Humanities: Select TWO	GenEd Discipline Requirements – Humanities
AMSL 110,111	HUX01
COMM 111,210,230	HUX01
FREN 110,111,201,202,250,251	FR, HU
GRMN 110,111,201,202,250,251	GE, HU
HIST 101,111,112,121,126,131,136,139,140,141,	HI, HU
143,144,146,149,151-156,159,160,170,172-178,180,	
190,194-199,200-208,210,214,216,217,218,219,239,	
245,281,288	
HUMN 107,108,110-114,120,121,122,125,127,	HU
128,129,166	
ITAL 110,111,201,202	IT, HU
JOUR 155,175,275,276,277,278,280	EN
JPNS 101,102	HU
LITR 205,206,231,232,234,235,246,254,255,261,262,	EN
264,271,273,275,277,278,279	
MUSC 100,101,103,105,106,111,112,115,116,124,	MU
129,130,188,201,202,206,211,212,215,216,230	
PHIL 105,111,115,125,140,145	
SPAN 110,111,201,202,250,251	SP
VAFA 100,110,141,147,148,149,151,157,160,161,	AR
165,167,168,169,171,181,191-196,200,202,203,	
210,211,242,246,249,257,260,261,271,282	
VAFW 100,133,136,137,138,140,145,180,181,	AR
190,280	
WMST 110	HU

Suggested checklist for 3rd and 4th year at USciences for *BS in Chemistry* based on current approved curriculum:

(this checklist is for planning purpose only and it is subject to changes; it does not constitute a contract)

THIRD YEAR AT USCIENCES		
CH 331	Basic Inorganic Chemistry	3
CH 366	Principles of Analytical Chemistry	3
CH 367	Analyt and Phys Methods Lab I	1
CH 321	Physical Chemistry I	4
CH 300	Discussions in Chemistry 1	
CO 204	Public Speaking	3
	GenEd Social Sciences Requirement	3
	GenEd Humanities Requirement	3
CH 322	Physical Chemistry II	4
CH 376	Instrumental Analysis	3
CH 368	Analyt and Phys Methods Lab II	1
CH 404	Literature of Chemistry	1

FOURTH YEAR AT USCIENCES		
CH 401	Seminar in Chemistry I	1
CH 423	Physical Chemistry Lab I	2
CH 431	Inorganic Chemistry	3
CH 341	Molecular Structure Biochemistry 3	
	GenEd Humanities Requirement	3
CH 402	Seminar in Chemistry II	1
CH 425	Inorganic and Material Synth Lab 2	
	Chemistry Elective	6
	Free Elective	9

Suggested checklist for 3^{rd} and 4^{th} year at USciences for *BS in Pharmaceutical Chemistry* based on current approved curriculum:

(this checklist is for planning purpose only and it is subject to changes; it does not constitute a contract)

THIRD YEAR AT USCIENCES		
CH 331	CH 331 Basic Inorganic Chemistry 3	
	GenEd Social Sciences Requirement	3
CH 300	Discussions in Chemistry	1
CH 321	Physical Chemistry I	4
CH 341	Molecular Structure Biochemistry	3
CH 366	Principles of Analytical Chemistry	3
CO 204	Public Speaking	3
CH 367	Analyt and Phys Methods Lab I	1
CH 322	Physical Chemistry II	4
CH 343	Intermediary Metabolic Biochemistry	3
CH 376	Instrumental Analysis	3
CH 368	Analyt and Phys Methods Lab II	1
CH 404	Literature of Chemistry	1

FOURTH YEAR AT USCIENCES			
	GenEd Humanities Requirement	6	
	Pharmaceutical Chemistry Progr Elect	3	
CH 411	Medical Chemistry	3	
CH 401	Seminar in Chemistry I	Seminar in Chemistry I 1	
CH 423	Physical Chemistry Lab I 2		
CH 402	Seminar in Chemistry II	Seminar in Chemistry II 1	
	Pharmaceutical Chemistry Progr Elect	3	
CH 464	Pharmaceutical Analytical Chemistry	3	
CH 465	Pharmaceutical Analytical Chem Lab	1	
	Free Elective	4	

Suggested checklist for 3^{rd} and 4^{th} year at USciences for *BS in Biochemistry* based on current approved curriculum:

(this checklist is for planning purpose only and it is subject to changes; it does not constitute a contract)

THIRD YEAR AT USCIENCES		
CH 331	Basic Inorganic Chemistry	3
CH 320	Essentials of Physical Chemistry	4
CH 366	Principles of Analytical Chemistry	3
CH 367	Analyt and Phys Methods Lab I	1
CO 204	Public Speaking	3
CH 341	Molecular Structure Biochemistry	3
	GenEd Social Sciences Requirement	3
CH 444	Biochemistry Laboratory I	1
CH 300	Discussions in Chemistry	1
CH 404	Literature of Chemistry	1
BS 466	Genetics	4
CH 343	Intermediary Metabolic Chemistry	3
CH 445	Biochemistry Laboratory II	1

FOURTH YEAR AT USCIENCES					
CH 401	Seminar in Chemistry I	1			
CH 423	Physical Chemistry Lab I	Physical Chemistry Lab I 2			
	Biochemistry Elective	3			
BS 461	Cell Biology	4			
	GenEd Humanities Requirement	6			
	Free Elective	3			
CH 402	Seminar in Chemistry II	1			
CH 342	Nucleic Acid Biochemistry	3			
	Biochemistry Elective	3			
	Free Elective	3			

Progress in Completing USciences' General Education Curriculum

[For the most recent information, see the current USciences Catalog on its website]

Discipline Requirements (minimum of 41 credits)

Discipline Requirement		Community College Courses / / USciences Courses*	
Natural Science		CHEM121	
(ONE semester of lab required)	7 credits	CHEM122	
Mathematics	6 credits	MATH125 & MATH140	
Communication (written & oral)	9 credits	COMP110 & COMP111 & COMM110	
Social Sciences	6 credits	COMM110	
		Choose One USciences Course:	
		PO (Political Science), PS (Psychology), SO (Sociology), AN	
		(Anthropology), SS (Social Sciences),	
		EC (Economics), CO (excluding CO 101 and CO 204)	
Humanities	6 credits	Choose Two USciences Courses:	
		AC (Arabic), AR (Art), , CI (Chinese), CA (Classics),	
		EN (excluding EN 101 and EN 102), FR (French),	
		GE (German), LA (Latin), HI (History), HU (Humanities),	
		MU (Music), PL (Philosophy), RS (Religious Studies),	
		SP (Spanish), WC (World Cultures)	
Multidisciplinary Inquiry	6 credits	Choose One:	
(may be substitute by Social Scien	nces &/or	ECON111 Principles of Economics: Macro	
Humanities courses)		POLI111 American National Government	
		PSYC110 Introduction to Psychology	
		SOCI110 Introduction to Sociology	
		Choose One: Arts/Humanities	
Physical Education	1 credit	Choose One:	
		[KINS 106,110,116,118,120,122,124,129, 130,133,134,135,	
		141,142,145,150,154,155,156, 170,172,175-179,188,189]	

Skills, Values, and Attitudes (one approved course for each)

Skills, Values, and Attitudes	Community	USciences Course	
	College Course	[RED = courses taken after transferring to USciences]	
Ethics		CH 300	
Information Literacy	BIOL122	CH 404	
Oral Communication		CH_401	
Reasoning & Problem Solving	BIOL121		
Technology	BIOL121		
Written Communication		CH 423	