

## Exhibit 8

### TRANSFER ADVISING GUIDE

#### Bucks County Community College to University of the Sciences in Philadelphia A.S. Biology (1003) → B.S. Pharmacology and Toxicology

#### Bucks Associate of Science Biology (1003)

#### USciences Bachelor of Science Pharmacology and Toxicology

Bucks Courses	Cr.	USciences Courses	Cr.
BIOL121 Biological Principles I	4	BS105 General Biology I BS107 General Biology I Lab  [BS103 General Biology I for students transferring prior to Fall 19]	3 1
BIOL122 Biological Principles II	4	BS106 General Biology II BS108 General Biology II Lab  [BS104 General Biology II for students transferring prior to Fall 19]	3 1
BIOL220 Principles of Ecology	4	BS377 Ecology <i>(serves as Free Elective)</i>	4
BIOL228 Microbiology	4	BS242 Microbial Science BS243 Microbial Science Lab  [BS240 Basics of Microbiology for students transferring prior to Fall 19]	3 1
CHEM121 Chemistry I	4	CH101 General Chemistry I CH103 General Chemistry Laboratory I	3 1
CHEM122 Chemistry II	4	CH102 General Chemistry II CH104 General Chemistry Laboratory II	3 1
CHEM221 Organic Chemistry I	5	CH201 Organic Chemistry I CH203 Organic Chemistry Laboratory I	3 1
CHEM222 Organic Chemistry II	5	CH202 Organic Chemistry II CH204 Organic Chemistry Laboratory II	3 1
COMP110 English Composition I	3	WR101 Writing & Rhetoric I	3
COMP111 English Composition II	3	WR102 Writing & Rhetoric II	3
COMM110 Effective Speaking	3	CO101 Introduction to Communication	3
MATH125 Pre-Calculus	4	MA107 Pre-calculus	3
MATH140 Calculus I	4	MA110 Calculus	3
Social Sciences/Diversity <b>Choose One</b>  ECON111 Principles of Economics: Macro POLI111 American National Government PSYC110 Introduction to Psychology SOC110 Introduction to Sociology	3	<i>(serves as GenEd MD Requirement)</i>  EC101 Introduction to Macroeconomics PO101 Intro to Political Sci & Am Gov't PS101 Introduction to Psychology SO101 Introduction to Sociology	3

Arts/Humanities <b>Choose One</b>	3	(serves as GenEd MD Requirement)	3
Electives (6 credits): <b>Choose One:</b> [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]	2	PE101/102 Physical Education I/II	1
AND			
PHYS106 Physics A	4	PY201 Introductory Physics I	4
<b>Bucks credits toward AS</b>	<b>63</b>	<b>Credits Accepted</b>	<b>58</b>
<b>Additional Courses Necessary to Enter USciences with Junior (U3) Status:</b>			
PHYS107 Physics B	4	PY202 Introductory Physics II	4
BIOL181 Anatomy and Physiology I	4	BS205 Human Structure and Function I BS207 Human Structure and Function Lab I	3 1
BIOL182 Anatomy and Physiology II	4	BS206 Human Structure and Function II BS208 Human Structure and Function Lab II	3 1
<b>Total Bucks Credits</b>	<b>75</b>	<b>Total Credits Accepted</b>	<b>70</b>

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.

PC181-Pharm/Tox Orientation I (1 cr) will be waived for students transferring to USciences after earning the A.S. in Biology (1003). 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:

- 6 credits in Social Sciences
- 6 credits in Humanities

Some or all of these 12 credits of coursework can be taken at Bucks or after transferring to USciences (currently included in the 3<sup>rd</sup> and 4<sup>th</sup> year at USciences). If the 12 credits are taken at Bucks, they should be selected from the following lists:

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

Suggested checklist for 3<sup>rd</sup> and 4<sup>th</sup> year at USciences based on current approved curriculum:  
*(this checklist is for planning purpose only and it is subject to changes; it does not constitute a contract)*

<b>THIRD YEAR AT USCIENCES</b>		
PC 282	Pharm/Tox Orientation II	1
	GenEd Humanities Requirement	6
PC 301	Physiology I	4
PC 302	Physiology II	4
CH 346	Biochemistry	3
CH 356	Molec Biology/Genetics	3
PC 324	Pharm/Tox Seminar I	1
PC 320	Techniques in Pharm/Tox	2
	Pharm/Tox Elective	9

<b>FOURTH YEAR AT USCIENCES</b>		
	GenEd Social Sciences Requirement	6
PC 411	Prin Medicinal Chem/Molecular Pharm.	4
PC 440	Pharmacology	4
PC 401	Principles of Toxicology I	4
PC 402	Principles of Toxicology II	4
PC 331	Biochem Pharm Tox	3
PC 330	Biomethods in Pharm/Tox	3
PC 424	Pharm/Tox Seminar II	1
	Pharm/Tox Elective	7

## 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 (ONE semester of lab required) <b>7 credits</b>	CHEM121 CHEM122
Mathematics <b>6 credits</b>	MATH125 & MATH140
Communication (written & oral) <b>9 credits</b>	COMP110 & COMP111 & COMM110
Social Sciences <b>6 credits</b>	<b>Choose Two USciences Course:</b> PO (Political Science), PS (Psychology), SO (Sociology), AN (Anthropology), SS (Social Sciences), EC (Economics), CO (excluding CO 101 and CO 204)
Humanities <b>6 credits</b>	<b>Choose Two USciences Courses:</b> 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 <b>6 credits</b> (may be substitute by Social Sciences &/or Humanities courses)	<b>Choose One:</b> ECON111 Principles of Economics: Macro POLI111 American National Government PSYC110 Introduction to Psychology SOCI110 Introduction to Sociology  <b>Choose One: Arts/Humanities</b>
Physical Education <b>1 credit</b>	<b>Choose One:</b> [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 College Course	USciences Course [RED = courses taken after transferring to USciences]
Ethics		See list of USciences courses approved for Ethics
Information Literacy	BIOL122	
Oral Communication	SOCI110	OR USciences course
Reasoning & Problem Solving	BIOL121	
Technology	BIOL121	
Written Communication	PSYCH110	OR USciences course

Skills requirement is usually fulfilled by taking courses that satisfy discipline requirements that are also approved for one or more GenEd skill.