

## Exhibit 7

### TRANSFER ADVISING GUIDE

#### Brookdale Community College (Brookdale) to University of the Sciences in Philadelphia A.S. Biology Option, Mathematics/Science → B.S. Pharmaceutical Sciences

#### Brookdale Associate in Science Biology Option

#### USciences Bachelor of Science Pharmaceutical Sciences

Brookdale Courses	Cr.	USciences Courses	Cr.
ENGL121 English Composition: The Writing Process	3	WR101 Writing & Rhetoric I	3
ENGL122 English Composition: Writing and Research	3	WR102 Writing & Rhetoric II	3
BIOL101 General Biology I	4	BS109 General Biology I BS110 General Biology I Lab  [BS103 General Biology I for students transferring prior to Fall 19]	3 1
BIOL102 General Biology II	4	BS119 General Biology II BS120 General Biology II Lab  [BS104 General Biology II for students transferring prior to Fall 19]	3 1
BIOL213 Microbiology (Serves as Career Studies)	4	BS243 Microbial Science BS244 Microbial Science Lab  [BS240 Basics of Microbiology for students transferring prior to Fall 19] (serves as Elective)	3 1
<b>Choose one:</b> BIOL205 Invertebrate Zoology BIOL206 Vertebrate Zoology BIOL207 Marine Biology BIOL208 Ecology and Field Biology BIOL215 Cell and Molecular Biology (Serves as Career Studies)	4	BSX01 Biology Elective BSX01 Biology Elective BSX01 Biology Elective BSX01 Biology Elective BSX01 Biology Elective BSX01 Biology Elective (serves as Elective)	4
CHEM101 General Chemistry I <i>(online course NOT accepted for transfer)</i>	5	CH101 General Chemistry I CH103 General Chemistry Laboratory I	3 1
CHEM102 General Chemistry II <i>(online course NOT accepted for transfer)</i>	5	CH102 General Chemistry II CH104 General Chemistry Laboratory II	3 1
CHEM203 Organic Chemistry I	5	CH201 Organic Chemistry I CH203 Organic Chemistry Laboratory I	3 1
CHEM204 Organic Chemistry II	5	CH202 Organic Chemistry II CH204 Organic Chemistry Laboratory II	3 1
MATH153 Pre-calculus Mathematics (serves as Elective)	4	MA107 Pre-Calculus	3
MATH171 Calculus I	4	MA110 General Calculus	3

COMP129 Information Technology (serves as Technology Competency/Gen Education)	3	CS250 Information Technology (serves as Elective)	3
Social Sciences Elective <b>Choose One</b>	3	(serves as GenEd Social Science Requirement)	3
Humanities Elective <b>Choose One</b>	3-4	(serves as GenEd MD Requirement)	3
Humanities or Social Science Elective <b>Choose One</b>	3-4	(serves as GenEd MD Requirement)	3
<b>Brookdale credits toward AS</b>	<b>62-64</b>	<b>Credits Accepted</b>	<b>56</b>
<b>Additional Courses Necessary to Enter USciences with Junior (U3) Status:</b>			
PHYS111 General Physics I (Non-Calculus)	4	PY201 Introductory Physics I	4
PHYS112 General Physics II (Non-Calculus)	4	PY202 Introductory Physics II	4
<b>Total Brookdale Credits</b>	<b>70-72</b>	<b>Total Credits Accepted</b>	<b>64</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). 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 Brookdale 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.

PE101/102-Physical Education I/II (1 cr), PH103-Pharmaceutical Sciences Orientation I (1 cr) will be waived for students transferring to USciences after earning the A.S. in Biological Sciences. 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 120-136 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 Brookdale 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 Brookdale or after transferring to USciences (currently included in the 3<sup>rd</sup> and 4<sup>th</sup> year at USciences). If the 9 credits are taken at Brookdale, they should be selected from the following lists:

<p><b>3 credits in Social Sciences: Select ONE</b></p> <p>ANTH105, 115, 116            ECON105, 106, 107            HGEO105            POLI101, 105, 115            PSYC105, 106, 206, 207, 208, 226            SOCI101, 202, 215</p>	<p><b>GenEd Discipline Requirements – Social Sciences</b></p> <p>AN103, X01, X01            EC101, EC201, ECX01            SSX01            POX01            PS101, X01, 200, X01, 200, 201            SO101, 205, X01</p>
<p><b>6 credits in Humanities: Select TWO</b></p> <p>AMSL101, 102            ARAB101, 102            ARTH105, 106, 107            CHNS101, 102            CINE105            ENGL155, 156, 158, 231, 232, 235, 236, 245, 246, 275            FRCH101, 102, 203, 204, 206, 207            GRMN101, 102, 203, 204            HIST105, 106, 107, 108, 125, 135, 136, 137, 145, 146, 215, 217, 225, 227            HUMN125            ITAL101, 102, 203, 204            JPNS101, 102, 203, 204            MUSI115, 116            PHIL105, 115, 225, 226, 227            PHTY105            PORT101, 102            RUSS101, 102            SPAN101, 102, 203, 204, 207, 215            THTR105, 135</p>	<p><b>GenEd Discipline Requirements – Humanities</b></p> <p>HUX01, X01            AC101, 102            AR101, 340, 340            CI101, HUX01            HUX01            EN314, X01, 201, X01, 313, X01, X01, 334, 336, X01            FR101, 102, X01, X01, X01            GE101, 102, 201, 202            HIX01, X01, X01, X01, X01, X01, X01, 304, X01, X01, X01, X01, X01, X01            HUX01            HUX01, X01, X01, X01            HUX01, X01, X01, X01            MUX01, X01            PLX01, PL101, RS310, PLX01, ET303            HUX01            HUX01, X01            HUX01, X01            SP101, SP102, SP201, SP202, SP303, HUX01            HUX01, X01</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>		
BS 205*	Human Structure and Function I	3
BS 206*	Human Structure and Function II	3
PH 203	Pharmaceutical Sciences Orientation II	1
	GenEd Social Sciences Requirement	3
CH 346	Biochemistry	4
PH 316	Pharmaceutics and Biopharmaceutics I	3
PH 318	Pharmaceutics Lab	1
	GenEd Humanities Requirement	3
CH 356	Molec Biology/Genetics	4
PH 317	Pharmaceutics and Biopharmaceutics II	4
PH 391	Pharmaceutical Seminar I	1
CO101	Intro to Communication	3

<b>FOURTH YEAR AT USCIENCES</b>		
PB 452	Legal Aspects of Drug Development	2
WR 302	Scientific Writing	3
PH 450	Manufacturing Pharmacy I	2
PH 451	Manufacturing Pharmacy Lab	1
PH 402	Controlled Release Dosage Forms	2
ST 310	Intro to Biostatistics	3
PH 398	Research Methods in Pharmaceutics	2
PH 491	Pharmaceutical Science Seminar II	1
CH 361	Analytical Chemistry	3
CH 363	Analytical Chemistry Lab	1
PH 400	Cosmetic Science	2
PH 401	Cosmetic Science Lab	2
PC 305	Fundamentals of Pharmacology	3
	GenEd Humanities Requirement	3
	Free Electives**	3

\* We strongly recommend transfer students to take BS205 and BS206 in the summer prior to entering USciences as U3 students.

\*\* Students transferring prior to Fall 18 will be required to take an additional 3 credit elective course.

## 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>	BIOL101 BIOL102
Mathematics <b>6 credits</b>	MATH153 MATH171
Communication (written & oral) <b>9 credits</b>	ENGL121 & ENGL122 CO101
Social Sciences <b>6 credits</b>	<b>Choose One:</b> Social Sciences Elective  <b>Choose One 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 substituted by Social Sciences &/or Humanities courses)	<b>Choose One:</b> Humanities Elective  <b>Choose One:</b> Humanities or Social Science Elective
Physical Education <b>1 credit</b>	Waived

*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	BIOL102	
Oral Communication	SOCI101	Or see USciences course approved for Oral Comm
Reasoning & Problem Solving	BIOL101	
Technology	BIOL101	
Written Communication	PSYC105	Or see USciences course approved for Written Comm

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