

## Exhibit 9

### TRANSFER ADVISING GUIDE

#### Delaware County Community College (DCCC) to University of the Sciences in Philadelphia A.S. Mathematics/Natural Science → B.S. Pharmacology & Toxicology

##### DCCC Associate in Science Mathematics/Natural Science

##### USciences Bachelor of Science Pharmacology & Toxicology

DCCC Courses	Cr.	USciences Courses	Cr.
ENG100 English Composition I	3	WR101 Writing & Rhetoric I	3
ENG112 English Composition II: Writing about Lit.	3	WR102 Writing & Rhetoric II	3
COMM100 Interpersonal Communication	3	CO101 Intro to Communication	3
DPR100 Introduction to Information Technology	3	ISX01 Information Science Elective <i>(serves as Free Elective)</i>	3
MAT152 Precalculus <i>(serves as Quantitative Reasoning Math Elective)</i>	4	MA107 Precalculus	3
MAT160 Calculus I <i>(serves as Mathematics Elective)</i>	4	MA110 General Calculus	3
CHE110 General Chemistry I <i>(serves as Scientific Inquiry Elective)</i>	4	CH101 General Chemistry I CH103 General Chemistry Laboratory I	3 1
CHE111 General Chemistry II <i>(serves as Laboratory Science Elective)</i>	4	CH102 General Chemistry II CH104 General Chemistry Laboratory II	3 1
CHE200 Organic Chemistry I <i>(serves as Mathematics/Laboratory Science Elective)</i>	4	CH201 Organic Chemistry I CH203 Organic Chemistry Laboratory I	3 1
CHE201 Organic Chemistry II <i>(serves as Mathematics/Laboratory Science Elective)</i>	4	CH202 Organic Chemistry II CH204 Organic Chemistry Laboratory II	3 1
BIO110 Intro Biology I <i>(serves as Scientific Inquiry Science Course)</i>	4	BS109 General Biology I BS110 General Biology I Lab  [BS103 General Biology I for students transferring prior to Fall 19]	3 1
BIO111 Intro Biology II <i>(serves as Laboratory Science Elective)</i>	4	BS119 General Biology II BS120 General Biology II Lab  [BS104 General Biology II for students transferring prior to Fall 19]	3 1
PHY110 College Physics I <i>(serves as Open Elective)</i>	4	PY201 Introductory Physics I	4
PHY111 College Physics II <i>(serves as Open Elective)</i>	4	PY202 Introductory Physics II	4
Diversity and Social Justice – Social Sc <b>Choose One:</b> HIS110, 120, 150, 160 POL120 PSY205, 210, 220, 221, 235, 241, 242 SOC110, 120, 180, 210/PSY225, 215	3	<i>(serves as GenEd MD Requirement)</i> HIX01 PO101 PSX01, 200, 347, 301, 204, 200, 201 SO101, 205, 306, AN103, SO330	3

Global Understanding - Humanities <b>Choose One:</b> ART110 ENG241 PHI100	3	(serves as GenEd Humanities Requirement) ARX01 ENX01 PL101	3
Social Science Elective <b>Choose One:</b> ECO210, 220 EDU200 POL120, 200 PSY200, 202, 204, 205, 210, 220, 221, 225, 235, 241, 242 SOC110, 120, 180, 210/PSY225, 215, 260	3	(serves as GenEd Social Sciences Requirement) EC101, 201 PL302 PO101 PS309, X01, X01, X01, 200, 347, 301, X01, 204, 200, 201 SO101, 205, 306, AN103, SO330, SSX01	3
<b>Choose One: (serves as Open Elective)</b> ARB101, 102 ART100, 110 ASL100, 102 DRA110 ENG241, 250 FRE101, 102 GER101 HUM110, 142, 160 PHI100, 110 SPA101, 102	3	(serves as GenEd Humanities Requirement) AC101, 102 HUX01, ARX01 HUX01 HUX01 ENX01 FR101, 102 GE101 HUX01, HU340, RS310 PL101, ETX01 SP101, 102	3
Social Science Elective <b>Choose One:</b> ECO210, 220 EDU200 POL120, 200 PSY200, 202, 204, 205, 210, 220, 221, 225, 235, 241, 242 SOC110, 120, 180, 210/PSY225, 215, 260	3	(serves as GenEd MD Requirement) EC101, 201 PL302 PO101 PS309, X01, X01, X01, 200, 347, 301, X01, 204, 200, 201 SO101, 205, 306, AN103, SO330, SSX01	3
<b>DCCC credits toward AS</b>	<b>67</b>	<b>Credits Accepted</b>	<b>65</b>
<b>Additional Courses Necessary to Enter USciences with Junior (U3) Status:</b>			
BIO230 Microbiology	4	BS243 Microbial Science BS244 Microbial Science Lab  [BS240 Basics of Microbiology for students transferring prior to Fall 19]	3 1
<b>Total DCCC Credits</b>	<b>71</b>	<b>Total Credits Accepted</b>	<b>69</b>

A minimum 2.7 cumulative GPA is required for admission.

A minimum grade of “B” in all science and mathematics courses (Prefixes: CHE, MAT, PHY, BIO). Students who do not meet these minimum grade requirements can still transfer under the terms of this articulation agreement, subject to USciences departmental review and approval.

The courses encompassed in the A.S. degree from DCCC 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 USciences departmental review and approval.

PE101/102-Physical Education I/II (1 cr) and PC181-Pharm/Tox Orientation I (1 cr) will be waived for students transferring to USciences after earning the A.S. in Mathematics/Natural Science. 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 DCCC 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

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

<b>3 credits in Social Sciences: Select ONE</b>	<b>GenEd Discipline Requirements – Social Sciences</b>
ECO210, 220	EC101, 201
EDU200	PL302
POL120, 200	PO101
PSY200, 202, 204, 205, 210, 220, 221, 225, 235, 241, 242	PS309, X01, X01, X01, 200, 347, 301, X01, 204, 200, 201
SOC110, 120, 180, 210/PSY225, 215, 260	SO101, 205, 306, AN103, SO330, SXX01

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)*

THIRD YEAR AT USCIENCES		
BS 205*	Human Structure and Function I	3
BS 207*	Human Structure and Function Lab I OR PC303 Virtual Physiology Lab I	1
BS 206*	Human Structure and Function II	3
BS 208*	Human Structure and Function Lab II OR PC304 Virtual Physiology Lab II	1
PC 282	Pharm/Tox Orientation II	1
WR 302	Scientific Writing	3
PH 316	Pharmaceutics & Biopharmaceutics	3
PH 318	Pharmaceutics Lab	1
CH 346	Biochemistry	4
CH 356	Molec Biology/Genetics	3
PC 324	Pharm/Tox Seminar I	1
PC 320	Techniques in Pharm/Tox	2
PC 330	Biomethods in Pharm/Tox	3
	Pharm/Tox Elective	3

FOURTH YEAR AT USCIENCES		
	General Education Social Sciences Req.	3
PC 411	Prin Medicinal Chem/Molec Pharmac	4
PC 440	Pharmacology	4
PC 401	Principles of Toxicology I	4
PC 402	Principles of Toxicology II	4
PC 331	Biochem Pharm Tox (Fall)	3
PC 424	Pharm/Tox Seminar II	1
	Pharm/Tox Elective	5

\* We strongly recommend transfer students to take BS205/207 and BS206/208 in the summer prior to entering USciences as U3 students.

For students transferring prior to Fall 18 the checklist differs from the one reported above; please contact USciences Transfer Advising office for the specific curriculum.

### 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>	CHE110 & CHE111
Mathematics <b>6 credits</b>	MAT152 & MAT160
Communication (written & oral) <b>9 credits</b>	ENG100 & ENG112 & COMM100
Social Sciences <b>6 credits</b>	<p><b>Choose One:</b>            ECO210, 220            EDU200            POL120, 200            PSY200, 202, 204, 205, 210, 220, 221, 225, 235, 241, 242            SOC110, 120, 180, 210/PSY225, 215, 260</p> <p><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)</p>
Humanities <b>6 credits</b>	<p><b>Choose One:</b>            ARB101, 102            ART100, 110            ASL100, 102            DRA110            ENG241, 250            FRE101, 102            GER101            HUM110, 142, 160            PHI100, 110            SPA101, 102</p> <p><b>Choose One:</b></p>

		ART110 ENG241 PHI100
Multidisciplinary Inquiry (may be substituted by Social Sciences &/or Humanities courses)	<b>6 credits</b>	<b>Choose One:</b> HIS110, 120, 150, 160 POL120 PSY205, 210, 220, 221, 235, 241, 242 SOC110, 120, 180, 210/PSY225, 215  <b>Choose One:</b> ECO210, 220 EDU200 POL120, 200 PSY200, 202, 204, 205, 210, 220, 221, 225, 235, 241, 242 SOC110, 120, 180, 210/PSY225, 215, 260
Physical Education	<b>1 credit</b>	<b>Waived</b>

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

<b>Skills, Values, and Attitudes</b>	<b>Community College Course</b>	<b>USciences Course</b> [RED = courses taken after transferring to USciences]
Ethics		See list of USciences courses approved for Ethics
Information Literacy	BIO111	
Oral Communication	SOC110	OR USciences course approved for Oral Comm
Reasoning & Problem Solving	BIO110	
Technology	BIO110	
Written Communication		See list of USciences courses approved for Written Com

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