

## Exhibit 8

### TRANSFER ADVISING GUIDE

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

#### MCCC Associate in Science Biology

#### USciences Bachelor of Science Pharmacology and Toxicology

MCCC Courses	Cr.	USciences Courses	Cr.
ENG101 English Composition I	3	WR101 Writing & Rhetoric I	3
ENG102 English Composition II	3	WR102 Writing & Rhetoric II	3
CMN111 Speech: Human Communication	3	CO101 Intro to Communication	3
MAT146 Pre-calculus	4	MA107 Precalculus	3
MAT151 Calculus I <i>(serves as Technical Elective)</i>	4	MA110 General Calculus	3
CHE101 General Chemistry I	4	CH101 General Chemistry I CH103 General Chemistry Laboratory I	3 1
CHE102 General Chemistry II	4	CH102 General Chemistry II CH104 General Chemistry Laboratory II	3 1
CHE201 Organic Chemistry I <i>(serves as Technical Elective)</i>	5	CH201 Organic Chemistry I CH203 Organic Chemistry Laboratory I	3 1
CHE202 Organic Chemistry II <i>(serves as Technical Elective)</i>	5	CH202 Organic Chemistry II CH204 Organic Chemistry Laboratory II	3 1
BIO101 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
BIO102 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
BIO201 Microbiology <i>(serves as Biology Elective)</i>	4	BS243 Microbial Science BS244 Microbial Science Lab  [BS240 Basics of Microbiology for students transferring prior to Fall 19]	3 1
Biology Elective <b>Choose One:</b> BIO202 Woody Plants BIO203 Entomology BIO204 Ecology BIO208 Genetics	4	<i>(serves as Biology Elective)</i> BSX01 Biology Elective BSX01 Biology Elective BS377 Ecology BSX01 Biology Elective	4
Social Science GenEd Elective <b>Choose One</b>	3	<i>(serves as GenEd Social Sciences Requirement)</i>	3

Humanities GenEd Elective <b>Choose One</b>	3	<i>(serves as GenEd MD Requirement)</i>	3
GenEd Elective (either Soc Sc or Humanities) <b>Choose One</b>	3	<i>(serves as GenEd MD Requirement)</i>	3
<b>Choose One:</b> HPE110 Concepts of Health and Fitness HPE111 Living with Health CSW100 College Success and Personal Wellness	2	PE101/102 Physical Education I/II	1
<b>MCCC credits toward AS</b>	<b>62</b>	<b>Credits Accepted</b>	<b>57</b>
<b>Additional Courses Necessary to Enter USciences with Junior (U3) Status:</b>			
PHY101 College Physics I	4	PY201 Introductory Physics I	4
PHY102 College Physics II	4	PY202 Introductory Physics II	4
<b>Total MCCC Credits</b>	<b>70</b>	<b>Total Credits Accepted</b>	<b>65</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 departmental review and approval.

The courses encompassed in the A.S. degree from MCCC 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. Biology. 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 MCCC 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 MCCC 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 MCCC, they should be selected from the following lists:

<p><b>3 credits in Social Sciences: Select ONE</b></p> <p>ANT101 Anthropology          ECO103 Basic Economics          ECO111 Macroeconomics          ECO112 Microeconomics          GEO101 Geography          GEO102 Cultural Geography          POL101 The American Political System          POL102 State and Local Government          POL201 International Relations          PSY101 Introduction to Psychology          PSY206 Child Development          PSY207 Developmental Psychology          SOC101 Introduction to Sociology          SOC107 Social Problems</p> <p><b>6 credits in Humanities: Select TWO</b></p> <p>MCCC Humanities GenEd Elective</p>	<p><b>GenEd Discipline Requirements – Social Sciences</b></p> <p>AN103 Introduction to Antropology          ECX01 Economics Elective          EC101 Intro to Macroeconomics          EC101 Intro to Microeconomics          SSX01 Social Science Elective          SSX01 Social Science Elective          PO101 Intro to Pol Sci and Amer Gov          POX01 Political Science Elective          POX01 Political Science Elective          PS101 Intro to Psychology          PSX01 Psychology Elective          PS200 Psych of Human Development          SO101 Introduction to Sociology          SOX01 Sociology Elective</p> <p><b>GenEd Discipline Requirements – Humanities</b></p>
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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 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
CH 346	Biochemistry	4
PH 316	Pharmaceutics and Biopharmaceutics I	3
PH 318	Pharmaceutics Lab	1
PC 320	Techniques in Pharm/Tox	2
CH 356	Molec Biology/Genetics	3
WR 302	Scientific Writing	3
PC 324	Pharm/Tox Seminar I	1
PC 330	Biomethods in Pharm/Tox	3
	General Education Social Sciences Req.	6

<b>FOURTH YEAR AT USCIENCES</b>		
PC 331	Biochem Pharm Tox (Fall)	3
PC 401	Principles of Toxicology I	4
PC 411	Prin Medicinal Chem/Molec Pharmac	4
PC 424	Pharm/Tox Seminar II	1
PC 402	Principles of Toxicology II	4
PC 440	Pharmacology	4
	General Education Humanities Req.	6
	Pharm/Tox Elective	6

\* 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)*

<b>Discipline Requirement</b>	<b>Community College Courses / / USciences Courses*</b>
Natural Science ( <b>ONE</b> semester of lab required) <b>7 credits</b>	CHE101 & CHE102
Mathematics <b>6 credits</b>	MAT146 & MAT151
Communication (written & oral) <b>9 credits</b>	ENG101 & ENG102 & CMN111
Social Sciences <b>6 credits</b>	<b>Choose One:</b> Social Science GenEd 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 GenEd Elective  <b>Choose One:</b> GenEd Elective (either Soc Sc or Humanities)
Physical Education <b>1 credit</b>	HPE110 or HPE111 or CSW100

*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	BIO102	
Oral Communication	SOC101	OR USciences course approved for Oral Communication
Reasoning & Problem Solving	BIO101	
Technology	BIO101	
Written Communication	PSY101	OR 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.