

## Exhibit 2

### TRANSFER ADVISING GUIDE

**Camden County College (CCC) to University of the Sciences in Philadelphia  
A.S. Liberal Arts and Science: Biology Option → B.S. Biology or BS Biomedical Sciences or BS Microbiology**

**CCC Associate in Science  
Biology Option (BIO.AS)**

**USciences Bachelor of Science  
Biology or Biomedical Sciences or Microbiology**

CCC 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
MTH140 Calculus I	4	MA110 General Calculus	3
MTH150 Calculus II OR MTH134 Biostatistics	4	MA221 Calculus II OR ST310 Intro to Biostatistics	4  3
CHM111 Chemistry I - Science	4	CH101 General Chemistry I CH103 General Chemistry Laboratory I	3 1
CHM112 Chemistry II - Science	4	CH102 General Chemistry II CH104 General Chemistry Laboratory II	3 1
CHM221 Organic Chemistry I <i>(serves as 200 Level Lab Science GenEd elective)</i>	4	CH201 Organic Chemistry I CH203 Organic Chemistry Laboratory I	3 1
CHM222 Organic Chemistry II <i>(serves as 200 Level Lab Science GenEd elective)</i>	4	CH202 Organic Chemistry II CH204 Organic Chemistry Laboratory II	3 1
BIO111 Biology I - Science	4	BS132 Introductory Biology I BS134 Introductory Biology I Lab  [BS130 Introductory Biology I for students transferring prior to Fall 19]	3 1  
BIO112 Biology II - Science	4	BS133 Introductory Biology II BS135 Introductory Biology II Lab  [BS131 Introductory Biology II for students transferring prior to Fall 19]	3 1  
BIO221 Microbiology <i>(serves as 200 Level Biology Lab Science Course)</i>	4	BS243 Microbial Science BS244 Microbial Science Lab  [BS240 Basics of Microbiology for students transferring prior to Fall 19]	3 1  
BIO255 Research Experience in Biology	3	BSX01 Biology Elective <i>(serves as Biology Elective)</i>	3
PHY101 Physics I	4	PY201 Introductory Physics I	4
PHY102 Physics II	4	PY202 Introductory Physics II	4
Social Science GenEd Elective <b>Choose One:</b> ANT101/101H	3	<i>(serves as GenEd MD Requirement)</i>	3

ECO101, 102 GEO101 POL101, 101H, 103, 103H PSY101, 101H, 105, 106, 107, 109 SOC101, 101H			
Humanities GenEd Elective <b>Choose One:</b> ARA101, 102 ART101, 103, 103H, 104, 111, 112,121 CHI101, 102 DAN101 ENG121, 131, 141, 181, 191, 261, 262, 271, 271H, 272, 272H, 281, 281H, 282 FRE101, 102, 201, 202, 203 GER101, 102, 201 GRK101, 102 HIS101, 101H, 102, 102H, 103, 103H, 111, 112, 121, 122, 131, 132, 142 ITA101, 102, 201, 202, LAT101, 102, 201 MUS111, 112, 113 PHL101, 111, 121, 131, 131H, 141 RUS101, 102, 201 SPA101, 102, 105, 201, 202, 203, 204 THE121	3	<i>(serves as GenEd Humanities Requirement)</i>	3
HIS101 World Civilization I	3	<i>HIX01 History Elective (serves as GenEd MD Requirement)</i>	3
Health & Exercise Science Elective <b>Choose One</b>	1	PE101/102 Physical Education I/II	1
<b>CCC credits toward AS</b>	<b>63</b>	<b>Credits Accepted</b>	<b>61-62</b>
<b>Additional Courses Necessary to Enter USciences with Junior (U3) Status:</b>			
SPE102 Public Speaking	3	CO204 Public Speaking	3
<b>Total CCC Credits</b>	<b>66</b>	<b>Total Credits Accepted</b>	<b>64-65</b>

A minimum 2.7 cumulative GPA is required for admission.

A minimum grade of “B” in courses with prefixes: BIO, MTH and ENG101, ENG102. 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 CCC 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.

MA107 - Precalculus (3 cr), BS101-Biological Sciences Orientation (1 cr), BS204-Biological Sciences Colloquium (1 cr) and MI110-Intro to Health and Medical Professions (1cr) will be waived for students

transferring to USciences after earning the A.S. in Liberal Arts and Science: Biology Option (BIO.AS). 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 CCC 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
- 3 credits in Humanities

Some or all of these 9 credits of coursework can be taken at CCC 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 CCC, they should be selected from the following lists:

<p><b>6 credits in Social Sciences: Select TWO</b></p> <p>ANT101/101H            ECO101, 102            GEO101            POL101, 101H, 103, 103H            PSY101, 101H, 105, 106, 107, 109            SOC101, 101H</p>	<p><b>GenEd Discipline Requirements – Social Sciences</b></p> <p>AN103            EC101, 102            SSX01            PO101            PS101, X01            SO101</p>
<p><b>3 credits in Humanities: Select ONE</b></p> <p>ARA101, 102            ART101, 103, 103H, 104, 111, 112,121            CHI101, 102            DAN101            ENG121, 131, 141, 181, 191, 261, 262, 271, 271H, 272, 272H, 281, 281H, 282            FRE101, 102, 201, 202, 203            GER101, 102, 201            GRK101, 102            HIS101, 101H, 102, 102H, 103, 103H, 111, 112, 121, 122, 131, 132, 142            ITA101, 102, 201, 202,            LAT101, 102, 201            MUS111, 112, 113            PHL101, 111, 121, 131, 131H, 141            RUS101, 102, 201            SPA101, 102, 105, 201, 202, 203, 204            THE121</p>	<p><b>GenEd Discipline Requirements – Humanities</b></p> <p>AC101, AC102            AR101, ARX01            CI101, CI102            HUX01            EN201, ENX01</p> <p>FR101, 102, 201, 202, HUX01            GE101, 102, 201            HUX01            HIX01, X01, X01, X01, X01, X01, 101, 102, X01, X01, X01, X01, X01            IT101, 102, X01            LA101, 102, LAX01            MUX01            PL101, X01            HUX01            SP101, 102, X01, 201, 202            HU340</p>

Suggested checklist for 3<sup>rd</sup> and 4<sup>th</sup> year at USciences for **BS in Biology** 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>		
	GenEd Social Sciences Requirement	6
CH 34X	Biochemistry	3-4
	Quantitative Science Requirement	3-4
	Biology Elective	3-4
	GenEd Humanities Requirement	3
	Free Elective	3
BS 466	Genetics	4
	Natural Science Elective	3-5
	Elective	6

<b>FOURTH YEAR AT USCIENCES</b>		
BS 493	Biological Sciences Seminar I	1
	Elective	3-6
	Biology Elective	3-6
BS 494	Biological Sciences Seminar II	1
	Free Elective(s)	3-9
	Biology Elective(s)	3-9

Suggested checklist for 3<sup>rd</sup> and 4<sup>th</sup> year at USciences for **BS in Biomedical Sciences** based on current approved curriculum:

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<b>THIRD YEAR AT USCIENCES</b>		
CH 34X	Biochemistry	3-4
BS 205 or BS 310	Anatomy and Physiology I	3
BS 207	Anatomy and Physiology I Lab – Optional	1
	Clinical Biology elective	3-4
	GenEd Humanities Requirement	3
	GenEd Social Sciences Requirement	6
BS 206 or BS 311	Anatomy and Physiology II	3
BS 208	Anatomy and Physiology II Lab – Optional	1
	Elective	3
BS 466	Genetics	4
ST 310	Biostatistics or Free Elective	3

<b>FOURTH YEAR AT USCIENCES</b>		
BS 493	Biological Sciences Seminar I	1
	Electives	10
BS 494	Biological Sciences Seminar II	1
	Electives	10
	Science Elective(s)	2-4
	Free Elective(s)	6

Suggested checklist for 3<sup>rd</sup> and 4<sup>th</sup> year at USciences for **BS in Microbiology – Applied Microbiology & Biotechnology Track** based on current approved curriculum:  
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THIRD YEAR AT USCIENCES		
CH 34X	Biochemistry	3-4
BS 343	Microbial Genetics	4
BS 34X	Trends in Microbiology	3
	Applied Microbiology Elective	9-12
	GenEd Humanities Requirement	3
	GenEd Social Sciences Requirement	6

FOURTH YEAR AT USCIENCES		
BS 493	Biological Sciences Seminar I	1
BS 453	Microbial Physiology	4
BS 464	Biotechnology Lecture	3
BS 461	Cell Biology	4
BS 476	Molecular Biology Lab	2
	Free Electives	3
	Applied Micro Electives	6-8

\* 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.

Suggested checklist for 3<sup>rd</sup> and 4<sup>th</sup> year at USciences for **BS in Microbiology – Medical Microbiology & Immunology Track** 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 34X	Biochemistry	3-4
BS 343	Microbial Genetics	4
BS 34X	Trends in Microbiology	3
BS 343	Microbial Genetics	4
	Med Micro Electives	9-12
	GenEd Humanities Requirement	3
	GenEd Social Sciences Requirement	6

FOURTH YEAR AT USCIENCES		
BS 493	Biological Sciences Seminar I	1
BS 453	Microbial Physiology	4
	Med Micro Elective	3-4
	Microbiology Program Elective	3-4
BS 355	Clinical Immunology	3
BS 494	Biological Sciences Seminar II	1
BS 308	Parasitology	3
BS 450	Virology	3
	Free Elective	3

\* 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>	CHM111 CHM112
Mathematics <b>6 credits</b>	MTH140 & MTH150 or MTH134
Communication (written & oral) <b>9 credits</b>	ENG101 & ENG102 & SPE102
Social Sciences <b>6 credits</b>	<b>Choose Two USciences Courses:</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 One:</b> ARA101, 102 ART101, 103, 103H, 104, 111, 112,121 CHI101, 102 DAN101 ENG121, 131, 141, 181, 191, 261, 262, 271, 271H, 272, 272H, 281, 281H, 282 FRE101, 102, 201, 202, 203 GER101, 102, 201 GRK101, 102 HIS101, 101H, 102, 102H, 103, 103H, 111, 112, 121, 122, 131, 132, 142 ITA101, 102, 201, 202, LAT101, 102, 201 MUS111, 112, 113 PHL101, 111, 121, 131, 131H, 141 RUS101, 102, 201 SPA101, 102, 105, 201, 202, 203, 204 THE121  <b>Choose One USciences Course:</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)	HIS101  <b>Choose One:</b> ANT101/101H ECO101, 102 GEO101

		POL101, 101H, 103, 103H PSY101, 101H, 105, 106, 107, 109 SOC101, 101H
Physical Education	<b>1 credit</b>	<b>Choose One:</b> HPE

*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	BIO112	BS493 Biological Sciences Seminar I
Oral Communication	SOC101	OR USciences course
Reasoning & Problem Solving	BIO111	
Technology	BIO111	
Written Communication	PSY101	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.