

## Exhibit 2

### TRANSFER ADVISING GUIDE

#### Mercer County Community College (MCCC) to University of the Sciences in Philadelphia A.S. Biology → B.S. Biology or BS Biomedical Sciences or BS Microbiology

#### MCCC Associate in Science Biology

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

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 OR CMN112 Public Speaking	3	CO101 Intro to Communication OR CO204 Public Speaking	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	BS132 Introductory Biology I BS134 Introductory Biology I Lab  [BS130 Introductory Biology I for students transferring prior to Fall 19]	3 1
BIO102 General Biology II	4	BS133 Introductory Biology II BS135 Introductory Biology II Lab  [BS131 Introductory 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 courses with prefixes: BIO, MAT and ENG101, ENG102. 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 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 USciences departmental review and approval.

BS101-Biological Sciences Orientation (1 cr), BS204-Biological Sciences Colloquium (1 cr) and MI110-Intro to Health and Medical Professions (1 cr) will be waived for students transferring to USciences after earning the A.S. in 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 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)*

THIRD YEAR AT USCIENCES		
	GenEd Social Sciences Requirement	3
CH 34X	Biochemistry	3-4
	Quantitative Science Requirement	3-4
	Biology Elective	3-4
	GenEd Humanities Requirement	6
BS 466	Genetics	4
	Natural Science Elective	3-5
	Biology Elective	3-4
	Free Elective	6

FOURTH YEAR AT USCIENCES		
BS 493	Biological Sciences Seminar I	1
	Free 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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THIRD YEAR AT USCIENCES		
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	6
	GenEd Social Sciences Requirement	3
BS 206 or BS 311	Anatomy and Physiology II	3
BS 208	Anatomy and Physiology II Lab – Optional	1
	Free Elective	6
BS 466	Genetics	4
ST 310	Biostatistics or Free Elective	3

FOURTH YEAR AT USCIENCES		
BS 493	Biological Sciences Seminar I	1
	Free Electives	10
BS 494	Biological Sciences Seminar II	1
	Free Electives	10
	Science Electives	5

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	6
	GenEd Social Sciences Requirement	3
	Quantitative Science	3-4

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
BS 494	Biology Seminar II	1
	Free Electives	5
	Applied Micro Electives	6-8

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:

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THIRD YEAR AT USCIENCES		
CH 34X	Biochemistry	3-4
BS 343	Microbial Genetics	4
BS 34X	Trends in Microbiology	3
BS 348	Clinical Microbiology	4
	Med Micro Electives	9-12
	GenEd Humanities Requirement	6
	GenEd Social Sciences Requirement	3
	Quantitative Science	3-4

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	2

\* for students transferring prior to Fall 18 the checklist for BS in Microbiology differ 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 ( <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 or CMN112
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)

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	BIO102	BS493 Biological Sciences Seminar I
Oral Communication	SOC101	or USciences course approved for Oral Com
Reasoning & Problem Solving	BIO101	
Technology	BIO101	
Written Communication	PSY101	or USciences course 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.