

Exhibit 2

TRANSFER ADVISING GUIDE

**Delaware County Community College (DCCC) to University of the Sciences in Philadelphia
A.S. Mathematics/Natural Science → B.S. Biology or BS Biomedical Sciences or BS Microbiology**

**DCCC Associate in Science
Mathematics/Natural Science**

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

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 OR COMM111 Public Speaking	3	CO101 Intro to Communication OR CO204 Public Speaking	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 Mathematics/Laboratory Science Elective)</i>	4	BS132 Introductory Biology I BS134 Introductory Biology I Lab [BS130 Introductory Biology I for students transferring prior to Fall 19]	3 1
BIO111 Intro Biology II <i>(serves as Mathematics/Laboratory Science Elective)</i>	4	BS133 Introductory Biology II BS135 Introductory Biology II Lab [BS131 Introductory Biology II for students transferring prior to Fall 19]	3 1
BIO230 Microbiology <i>(serves as Open Elective)</i>	4	BS243 Microbial Science BS244 Microbial Science Lab [BS240 Basics of Microbiology 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 (serves as Open Elective)	4	PY202 Introductory Physics II	4
Diversity and Social Justice – Social Sc Choose One: HIS110, 120, 150, 160 POL120 PSY205, 210, 220, 221, 235, 241, 242 SOC110, 120, 180, 210/PSY225, 215	3	(serves as GenEd MD Requirement) HIX01 PO101 PSX01, 200, 347, 301, 204, 200, 201 SO101, 205, 306, AN103, SO330	3
Global Understanding - Humanities Choose One: ART110 ENG241 PHI100	3	(serves as GenEd Humanities Requirement) ARX01 ENX01 PL101	3
Social Science Elective Choose One: 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
Social Science Elective Choose One: 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
DCCC credits toward AS	68	Credits Accepted	66
Total DCCC Credits	68	Total Credits Accepted	66

A minimum 2.7 cumulative GPA is required for admission.

A minimum grade of “B” in courses with prefixes: BIO, MAT and ENG100, ENG112. 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), 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 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
- 3 credits in Humanities

Some or all of these 6 credits of coursework can be taken at DCCC or after transferring to USciences (currently included in the 3rd and 4th year at USciences). If the 6 credits are taken at DCCC, they should be selected from the following lists:

<p>3 credits in Social Sciences: Select ONE 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>GenEd Discipline Requirements – Social Sciences EC101, 201 PL302 PO101 PS309, X01, X01, X01, 200, 347, 301, X01, 204, 200, 201 SO101, 205, 306, AN103, SO330, SSX01</p>
<p>3 credits in Humanities: Select ONE ARB101, 102 ART100, 110 ASL100, 102 DRA110 ENG241, 250 FRE101, 102 GER101 HUM110, 142, 160 PHI100, 110 SPA101, 102</p>	<p>GenEd Discipline Requirements – Humanities AC101, 102 HUX01, ARX01 HUX01 HUX01 ENX01 FR101, 102 GE101 HUX01, HU340, RS310 PL101, ETX01 SP101, 102</p>

Suggested checklist for 3rd and 4th 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	3
	Free Elective	3
BS 466	Genetics	4
	Natural Science Elective	3-5
	Elective	6

FOURTH YEAR AT USCIENCES		
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 3rd and 4th 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	3
	GenEd Social Sciences Requirement	3
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

FOURTH YEAR AT USCIENCES		
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 3rd and 4th 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	3

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

Suggested checklist for 3rd and 4th 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	3

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

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) 7 credits	CHE110 & CHE111
Mathematics 6 credits	MAT152 & MAT160
Communication (written & oral) 9 credits	ENG100 & ENG112 & COMM100 or COMM111
Social Sciences 6 credits	<p>Choose One: 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>Choose One USciences Course: PO (Political Science), PS (Psychology), SO (Sociology), AN (Anthropology), SS (Social Sciences), EC (Economics), CO (excluding CO 101 and CO 204)</p>
Humanities 6 credits	<p>Choose One: ART110 ENG241 PHI100</p> <p>Choose One USciences Course: 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)</p>
Multidisciplinary Inquiry 6 credits (may be substituted by Social Sciences &/or Humanities courses)	<p>Choose One: HIS110, 120, 150, 160 POL120 PSY205, 210, 220, 221, 235, 241, 242 SOC110, 120, 180, 210/PSY225, 215</p> <p>Choose One: ECO210, 220 EDU200 POL120, 200 PSY200, 202, 204, 205, 210, 220, 221, 225, 235, 241, 242 SOC110, 120, 180, 210/PSY225, 215, 260</p>
Physical Education 1 credit	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	BIO111	BS493 Biological Sciences Seminar I
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.