

Exhibit 16

TRANSFER ADVISING GUIDE

**Camden County College (CCC) to University of the Sciences in Philadelphia
A.S. Liberal Arts and Science: Chemistry Option → B.S. Biochemistry, Chemistry, Pharmaceutical Chemistry**

**CCC Associate in Science
Chemistry (CHM.AS)**

**USciences Bachelor of Science
Biochemistry, Chemistry, Pharmaceutical Chem**

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	MA122 Calculus I	4
MTH150 Calculus II	4	MA221 Calculus II	4
MTH210 Calculus III	4	MA222 Calculus III	4
CHM111 Chemistry I - Science	4	CH111 Principles of Chemistry I CH113 Principles of Chemistry Lab I	3 1
CHM112 Chemistry II - Science	4	CH112 Principles of Chemistry II CH114 Principles of Chemistry Lab II	3 1
CHM221 Organic Chemistry I	4	CH211 Principles of Organic Chemistry I CH213 Principles of Organic Chemistry Lab I	3 1
CHM222 Organic Chemistry II	4	CH212 Principles of Organic Chemistry II CH214 Principles of Organic Chemistry Lab 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] <i>(serves as Elective for BS in Chemistry and Pharmaceutical Chemistry)</i>	3 1
PHY201 Physics III	4	PY211 Physics I	4
PHY202 Physics IV	4	PY212 Physics II	4
(Any 200-level Biology, Chemistry, or Biotechnology course)	4	(serves as Elective)	4
Social Science GenEd Elective Choose One: ANT101/101H ECO101, 102 GEO101 POL101, 101H, 103, 103H PSY101, 101H, 105, 106, 107, 109	3	<i>(serves as GenEd Social Sciences Requirement)</i>	3

SOC101, 101H			
Social Science GenEd Elective Choose One: ANT101/101H ECO101, 102 GEO101 POL101, 101H, 103, 103H PSY101, 101H, 105, 106, 107, 109 SOC101, 101H	3	(serves as GenEd MD Requirement)	3
HIS101 World Civilization I OR ENG 271 World Literature I	3	HIX01 History Elective OR ENX01 English Elective (serves as GenEd MD Requirement)	3
Health & Exercise Science Elective Choose One	1	PE101/102 Physical Education I/II	1
CCC credits toward AS	64	Credits Accepted	64
Additional Courses Necessary to Enter USciences with Junior (U3) Status:			
SPE102 Public Speaking	3	CO204 Public Speaking	3
Total CCC Credits	67	Total Credits Accepted	67

A minimum 2.7 cumulative GPA is required for admission.

A minimum grade of “B” in all science and mathematics courses (Prefixes: CHM, MTH, 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 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.

CH120-Orientation for the Chemical Sciences (1 cr) and MA107 - Precalculus (3 cr) will be waived for transfer students transferring to USciences after earning the A.S. in Liberal Arts and Science: Chemistry Option (CHM.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:

- 3 credits in Social Sciences
- 6 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 3rd and 4th year at USciences). If the 9 credits are taken at CCC, they should be selected from the following lists:

<p>3 credits in Social Sciences: Select ONE</p> <p>ANT101/101H ECO101, 102 GEO101 POL101, 101H, 103, 103H PSY101, 101H, 105, 106, 107, 109 SOC101, 101H</p>	<p>GenEd Discipline Requirements – Social Sciences</p> <p>AN103 EC101, 102 SSX01 PO101 PS101, X01 SO101</p>
<p>6 credits in Humanities: Select TWO</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>GenEd Discipline Requirements – Humanities</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 3rd and 4th year at USciences for **BS in Chemistry** 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 331	Basic Inorganic Chemistry	3
CH 366	Principles of Analytical Chemistry	3
CH 367	Analyt and Phys Methods Lab I	1
CH 321	Physical Chemistry I	4
CH 300	Discussions in Chemistry	1
CH 322	Physical Chemistry II	4
CH 376	Instrumental Analysis	3
CH 368	Analyt and Phys Methods Lab II	1
CH 404	Literature of Chemistry	1

FOURTH YEAR AT USCIENCES		
CH 401	Seminar in Chemistry I	1
CH 423	Physical Chemistry Lab I	2
CH 431	Inorganic Chemistry	3
CH 341	Molecular Structure Biochemistry	3
	GenEd Social Sciences Requirement	3
	GenEd Humanities Requirement	3
CH 402	Seminar in Chemistry II	1
CH 425	Inorganic and Material Synth Lab	2
	GenEd Humanities Requirement	3
	Chemistry Elective	6
	Free Elective	2

Suggested checklist for 3rd and 4th year at USciences for **BS in Pharmaceutical Chemistry** based on current approved curriculum:

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THIRD YEAR AT USCIENCES		
CH 331	Basic Inorganic Chemistry	3
CH 300	Discussions in Chemistry	1
CH 321	Physical Chemistry I	4
CH 341	Molecular Structure Biochemistry	3
CH 366	Principles of Analytical Chemistry	3
CH 367	Analyt and Phys Methods Lab I	1
CH 322	Physical Chemistry II	4
CH 343	Intermediary Metabolic Biochemistry	3
CH 376	Instrumental Analysis	3
CH 368	Analyt and Phys Methods Lab II	1
CH 404	Literature of Chemistry	1

FOURTH YEAR AT USCIENCES		
	GenEd Humanities Requirement	6
	Pharmaceutical Chemistry Progr Elect	6
CH 411	Medical Chemistry	3
CH 401	Seminar in Chemistry I	1
CH 423	Physical Chemistry Lab I	2
CH 402	Seminar in Chemistry II	1
	Pharmaceutical Chemistry Progr Elect	3
CH 464	Pharmaceutical Analytical Chemistry	3
CH 465	Pharmaceutical Analytical Chem Lab	1
	GenEd Social Sciences Requirement	3

Suggested checklist for 3rd and 4th year at USciences for **BS in Biochemistry** based on current approved curriculum:

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THIRD YEAR AT USCIENCES		
CH 331	Basic Inorganic Chemistry	3
CH 320	Essentials of Physical Chemistry	4
CH 366	Principles of Analytical Chemistry	3
CH 367	Analyt and Phys Methods Lab I	1
CH 341	Molecular Structure Biochemistry	3
CH 444	Biochemistry Laboratory I	1
CH 300	Discussions in Chemistry	1
CH 404	Literature of Chemistry	1
BS 466	Genetics	4
CH 343	Intermediary Metabolic Chemistry	3
CH 445	Biochemistry Laboratory II	1

FOURTH YEAR AT USCIENCES		
CH 401	Seminar in Chemistry I	1
CH 423	Physical Chemistry Lab I	2
	Biochemistry Elective	3
BS 461	Cell Biology	4
	GenEd Social Sciences Requirement	3
	GenEd Humanities Requirement	6
	Free Elective	3
CH 402	Seminar in Chemistry II	1
CH 342	Nucleic Acid Biochemistry	3
	Biochemistry 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	CHM111 CHM112
Mathematics 6 credits	MTH140 & MTH150
Communication (written & oral) 9 credits	ENG101 & ENG102 & SPE102
Social Sciences 6 credits	<p>Choose One: ANT101/101H ECO101, 102 GEO101 POL101, 101H, 103, 103H PSY101, 101H, 105, 106, 107, 109 SOC101, 101H</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 Two USciences Courses: 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: ANT101/101H ECO101, 102 GEO101 POL101, 101H, 103, 103H PSY101, 101H, 105, 106, 107, 109 SOC101, 101H</p> <p>Choose One: HIS101 World Civilization I ENG 271 World Literature I</p>
Physical Education 1 credit	Choose One: HPE

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		CH 300
Information Literacy	BIO112	CH 404
Oral Communication		CH 401
Reasoning & Problem Solving	BIO111	
Technology	BIO111	
Written Communication		CH 423

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