

## Exhibit 15

### TRANSFER ADVISING GUIDE

#### Rowan College at Gloucester County (RCGC) to University of the Sciences in Philadelphia A.S. Computer Science → B.S. Data Science

#### RCGC Associate in Science Computer Science

#### USciences Bachelor of Science Data Science

RCGC 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
MAT107 Pre-Calculus and Mathematical Analysis	4	MA107 Precalculus	3
MAT108 Calculus I	4	MA122 Calculus I	4
MAT122 Calculus II	4	MA221 Calculus II	4
MAT113 Discrete Mathematics	3	MA314 Discrete Mathematics <i>(serves as Program Elective)</i>	3
MAT103 Statistics <i>(serves as Math Elective)</i>	3	ST310 Intro to Biostatistics	3
PHY201 Physics with Calculus I	4	PY211 Physics I	4
PHY202 Physics with Calculus II	4	PY212 Physics II	4
CSC111 Intermediate Programming	4	CSX01 Computer Science Elective <i>(serves as Free Elective)</i>	4
CSC203 Assembly language and Computer Organiz	4	CS322 Assembly Language and Comp Archit <i>(serves as Application Domain course)</i>	3
CSC205 Programming C++	4	CS201 Computer Programming I	3
CSC210 Object Oriented Programming in Java	4	CS490 Special Topics in Computer Science <i>(serves as Application Domain course)</i>	4
CSC220 Data Structure and Algorithms	4	CS320 Data Structure/Algorithm	3
Social Science Elective <b>Choose One:</b> ECO 100, 101, 102 GEO 102 POL 101, 103 PSY 101, 211, 212, 213, 215 SOC 101, 102, 104, 130	3	<i>(serves as GenEd Social Sciences Requirement)</i>	3
Social Science Elective <b>Choose One:</b> ECO 100, 101, 102 GEO 102 POL 101, 103 PSY 101, 211, 212, 213, 215 SOC 101, 102, 104, 130	3	<i>(serves as GenEd MD Requirement)</i>	3
Humanities Elective <b>Choose One:</b> ART 101, 121, 201, 202 ASL 101, 102 CHI 101 ENG 103,109,203,222,225,230,231,235,236,241,243	3	<i>(serves as GenEd MD Requirement)</i>	3

FRE 101 GER 101, 102 HIS 101, 102, 103, 104, 107, 205, 206 ITA 101, 102 MUS 101, 203 PHI 101, 104, 110, 150, 204, 210 SPA 101, 102, 201, 202			
Humanities Elective <b>Choose One:</b> ART 101, 121, 201, 202 ASL 101, 102 CHI 101 ENG 103,109,203,222,225,230,231,235,236,241,243 FRE 101 GER 101, 102 HIS 101, 102, 103, 104, 107, 205, 206 ITA 101, 102 MUS 101, 203 PHI 101, 104, 110, 150, 204, 210 SPA 101, 102, 201, 202	3	<i>(serves as GenEd Humanities Requirement)</i>	3
Health and Physical Ed Elective HPE <b>Choose One</b>	1-3	PE101/102 Physical Education I/II	1
<b>RCGC credits toward AS</b>	<b>65-67</b>	<b>Credits Accepted</b>	<b>61</b>
<b>Additional Courses Necessary to Enter USciences with Junior (U3) Status:</b>			
<b>One of the following two-semester sequence:</b>			
CHM111 General Chemistry I	4	CH111 Principles of Chemistry I	3
		CH113 Principles of Chemistry Lab I	1
CHM112 General Chemistry II	4	CH112 Principles of Chemistry II	3
		CH114 Principles of Chemistry Lab II	1
OR			
BIO101 General Biology I	4	BS132 Introductory Biology I	3
		BS134 Introductory Biology I Lab	1
BIO102 General Biology II	4	BS133 Introductory Biology II	3
		BS135 Introductory Biology II Lab	1
<b>Total RCGC Credits</b>	<b>73-75</b>	<b>Total Credits Accepted</b>	<b>69</b>

A minimum 2.7 cumulative GPA is required for admission.

A minimum grade of "B" in courses with prefixes: MAT and CSC. 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 RCGC 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.

DS101-Data Science Orientation (1 cr) will be waived for students transferring to USciences after earning the A.S. in Computer 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 RCGC for advising.

Suggested checklist for 3<sup>rd</sup> and 4<sup>th</sup> year at USciences for **BS in Data Science** 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		
DS 201	Intro to Data Science I	3
MA 316	Linear Algebra	3
DS 301	Data Visualization	3
CO 101 or CO 204	Intro to Communication or Public Speaking	3
SO 101 or SO 111 or PS 101	Intro to Sociology or Principles of Sociology or Intro to Psychology	3
DS 202	Intro to Data Science II	3
ST 320	Introduction to Probability	3
ST 331	Regression Analysis	3
CS 324	Database Design	3

FOURTH YEAR AT USCIENCES		
WR 302 or WR 303	Scientific Writing or Professional Writing	3
ET 303	Ethics	3
DS 401	Time Series and Forecasting	3
	Application Domain course	8
DS 496 or DS 400	Data Science Capstone or Data Science Internship	1
DS 496	Data Science Capstone	1
	Program Elective courses	9

## 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	PHY201 PHY202
Mathematics	6 credits	MAT108 & MAT122
Communication (written & oral)	9 credits	ENG101 & ENG102 CO101 or CO204
Social Sciences	6 credits	Choose One: Social Science Elective  Choose One USciences Course: SO101, SO111, PS101
Humanities	6 credits	Choose One: Humanities Elective  ET303
Multidisciplinary Inquiry (may be substituted by Social Sciences &/or Humanities courses)	6 credits	Choose One: Social Science Elective  Choose One: Humanities Elective
Physical Education	1 credit	Choose One: Health and Physical Education Elective 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		ET303
Information Literacy	BIO102	or see list of USciences courses approved for Inf Literacy
Oral Communication		SO101 or see list of course approved for Oral Comm
Reasoning & Problem Solving	PHY201	
Technology	PHY201	
Written Communication		WR302 or WR303

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