

## ARTICULATION AGREEMENT

Between  
John Tyler Community College (JTCC)  
And  
Virginia Commonwealth University  
(VCU)

**Purpose:** This memorandum of understanding has been developed within the framework of the Virginia State Policy on Transfer <http://www.schev.edu/students/StatePolicyOnTransfer.pdf> to facilitate the transfer credits earned by students with Associate of Science (A.S.) degrees in General Studies (Science Specialization) at John Tyler Community College into Bachelor of Science (B.S.) degree programs in Bioinformatics, Biology, Chemistry, Environmental Studies, Forensic Science, Physics, and Health and Exercise Science at Virginia Commonwealth University. It is intended to provide students enrolled in the A.S. program at JTCC admission into the baccalaureate B.S. degree program(s) at VCU. This agreement establishes a partnership between JTCC and VCU for the benefit of students. This agreement updates and supersedes the Articulation Agreement between JTCC and VCU signed July 13, 2012.

JTCC will promote and advertise this articulation agreement in the college catalog, website and other publicity material. Representatives of JTCC and VCU will call attention to this articulation agreement when advising students.

### **Eligible Students:**

Eligible students are those who meet the following criteria:

- Earn an Associate of Science degree in General Studies (Science Specialization) at John Tyler Community College;
- Earn a minimum cumulative college-level grade point average of 2.5 on a 4.0 scale;
- Earn an individual grade no lower than a C on any course listed on the Transfer Program Tables;

### **Admission to Virginia Commonwealth University:**

VCU guarantees admission into its B.S. degree programs in Bioinformatics, Biology, Chemistry, Environmental Studies, Forensic Science, Physics, and Health and Exercise Science with junior standing to "Eligible Students" who have completed the A.S. in General Studies (Science Specialization) at JTCC.

### **Transfer of Credits:**

The attached "Transfer Program Tables" list the respective transfer credits that will be awarded by VCU for courses offered by JTCC for transfer under the terms of the Agreement. This table will be updated as curricula evolve. Courses listed in this program will be reviewed, as needed, by the faculty of both institutions to ensure continuity of instruction, curriculum, and evaluation.

Students can transfer credits back to JTCC from VCU, pursuant to JTCC policies.

### **Additional Terms:**

- JTCC students who have not completed the A.S. program in General Studies (Science Specialization) will be considered for admission into the VCU B.S. programs according to the VCU general admissions policies. Students who transfer prior to the completion of the Associate degree program will have their courses evaluated individually per the Course Equivalency Tables (<http://www.transfer.vcu.edu/vccs/course-equivalency.aspx>). Students are encouraged to complete the Associate degree prior to matriculating at VCU.



## TRANSFER PROGRAM TABLES

### BIOINFORMATICS

JTCC SCIENCE SPECIALIZATION COURSES	CREDITS	VCU COURSES	CREDITS
<b>First Semester</b>			
CHM 111 College Chemistry I	4	CHEM 101 + CHEZ 101	4
ENG 111 College Composition I	3	UNIV 111 + UNIV 112	3
Math Elective: MTH 163	3	MATH 141	3
SDV 100 College Success Skills	1	Not transferable	0
History Elective: (HIS 101, 102, 111, 112, 121, or 122)	3	VCU equivalent	3
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>13</b>
<b>Second Semester</b>			
CHM 112 College Chemistry II	4	CHEM 102 + CHEZ 102	4
ENG 112 College Composition II	3	UNIV 200	3
Math Elective: MTH 164	3	MATH 151	3
History Elective	3	VCU elective	3
Social/Behavioral Science Elective: (PSY 200, SOC 200, SOC 211, PLS 135)	3	VCU equivalent	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
<b>Third Semester</b>			
BIO 101 General Biology I	4	BIOL 151 + BIOZ 151	4
Laboratory Science or Advanced Math Elective: CHM 241 + 245 or PHY 201	4-5	CHEM 301 + CHEZ 301 or PHYS 201	4-5
Social/Behavioral Science Elective	3	VCU equivalent	3
Literature Elective	3	VCU equivalent	3
Physical Education/Health Elective	1	VCU elective	1
<b>Total</b>	<b>15-16</b>	<b>Total</b>	<b>15-16</b>
<b>Fourth Semester</b>			
BIO 102 General Biology II	4	BIOL 152 + BIOZ 152	4
Laboratory Science or Advanced Math Elective: MTH 173 or BIO 206 Cell Biology	4-5	MATH 200 or BIOL 300	4-5
Transfer Elective	3	VCU equivalent	3
Transfer Elective	2	VCU equivalent	2
Humanities Elective	3	VCU equivalent	3
<b>Total</b>	<b>16-17</b>	<b>Total</b>	<b>16-17</b>
<b>Total Credits</b>	<b>61-63</b>	<b>Total Credits</b>	<b>60-62</b>

## BIOLOGY

JTCC SCIENCE SPECIALIZATION COURSES	CREDITS	VCU COURSES	CREDITS
CHM 111 College Chemistry I	4	CHEM 101 + CHEZ 101	4
ENG 111 College Composition I	3	UNIV 111 + UNIV 112	3
Math Elective: MTH 163	3	MATH 141	3
SDV 100 College Success Skills	1	Not transferable	0
History Elective: (HIS 101, 102, 111, 112, 121, or 122)	3	VCU equivalent	3
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>13</b>
<b>Second Semester</b>			
CHM 112 College Chemistry II	4	CHEM 102 + CHEZ 102	4
ENG 112 College Composition II	3	UNIV 200	3
Math Elective: MTH 164	3	MATH 151	3
History Elective	3	VCU elective	3
Social/Behavioral Science Elective	3	VCU equivalent	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
<b>Third Semester</b>			
BIO 101 General Biology I	4	BIOL 151 + BIOZ 151	4
Laboratory Science or Advanced Math Elective; CHM 241 + 245 or PHY 201	4-5	CHM 301 + CHEZ 301 or PHYS 201	4-5
Social/Behavioral Science Elective	3	VCU equivalent	3
Literature Elective	3	VCU equivalent	3
Physical Education/Health Elective	1	VCU elective	1
<b>Total</b>	<b>15-16</b>	<b>Total</b>	<b>15-16</b>
<b>Fourth Semester</b>			
BIO 102 General Biology II	4	BIOL 152 + BIOZ 152	4
Laboratory Science or Advanced Math Elective: MTH 157 or 240, MTH 173, or PHY 202	3-5	STAT 210, MATH 200, or PHYS 202	3-5
Transfer Elective	3	VCU equivalent	3
Transfer Elective	2	VCU equivalent	2
Humanities Elective	3	VCU equivalent	3
<b>Total</b>	<b>15-17</b>	<b>Total</b>	<b>15-17</b>
<b>Total Credits</b>	<b>60-63</b>	<b>Total Credits</b>	<b>59-62</b>



## CHEMISTRY

JTCC SCIENCE SPECIALIZATION COURSES	CREDITS	VCU COURSES	CREDITS
CHM 111 College Chemistry I	4	CHEM 101 + CHEZ 101	4
ENG 111 College Composition I	3	UNIV 111 + UNIV 112	3
Math Elective: MTH 166	5	MATH 151	5
SDV 100 College Success Skills	1	Not transferable	0
History Elective: (HIS 101, 102, 111, 112, 121, or 122)	3	VCU equivalent	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>15</b>
<b>Second Semester</b>			
CHM 112 College Chemistry II	4	CHEM 102 + CHEZ 102	4
ENG 112 College Composition II	3	UNIV 200	3
Math Elective: MTH 173	5	MATH 200	5
History Elective	3	VCU elective	3
Social/Behavioral Science Elective: (PSY 200 SOC 200, SOC 211, PLS 135)	3	VCU equivalent	3
<b>Total</b>	<b>18</b>	<b>Total</b>	<b>18</b>
<b>Third Semester</b>			
BIO 101 General Biology I (BIOCHM TRACK ONLY) or PHY 201 General College Physics I	4	BIOL 151 + BIOZ 151 or PHYS 201	4
Laboratory Science or Advance Math Elective: MTH 174	5	MATH 201	5
Social/Behavioral Science Elective	3	VCU equivalent	3
Literature Elective	3	VCU equivalent	3
Physical Education/Health Elective	1	VCU elective	1
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
<b>Fourth Semester</b>			
BIO 102 General Biology II (BIOCHM TRACK ONLY) or PHY 202 General College Physics II	4	BIOL 152 + BIOZ 152 or PHYS 202	4
Laboratory Science or Advanced Math Elective: CHM 241 + CHM 245	5	CHEM 301 + CHEZ 301	5
Humanities Elective	3	VCU equivalent	3
Transfer Elective	3	VCU equivalent	3
Transfer Elective	2	VCU equivalent	2
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>17</b>
<b>Total Credits</b>	<b>67</b>	<b>Total Credits</b>	<b>66</b>

### ENVIRONMENTAL STUDIES

JTCC SCIENCE SPECIALIZATION COURSES	CREDITS	VCU COURSE	CREDITS
CHM 111 College Chemistry I	4	CHEM 101 + CHEZ 101	4
ENG 111 College Composition I	3	UNIV 111 + UNIV 112	3
Math Elective: MTH 163	3	MATH 141	3
SDV 100 College Success Skills	1	Not transferable	0
History Elective: (HIS 101, 102, 111, 112, 121, or 122)	3	VCU equivalent	3
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>13</b>
<b>Second Semester</b>			
CHM 112 College Chemistry II	4	CHEM 102 + CHEZ 102	4
ENG 112 College Composition II	3	UNIV 200	3
Math Elective: MTH 164	3	MATH 151	3
History Elective	3	VCU elective	3
Social/Behavioral Science Elective: (PSY 200, SOC 200, SOC 211, PLS 135)	3	VCU equivalent	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
<b>Third Semester</b>			
BIO 101 General Biology I	4	BIO1 151 + BIOZ 151	4
Laboratory Science or Advance Math Elective: PHY 201 or MTH 157 or 240	3-4	PHYS 201 or STAT 210	3-4
Social/Behavioral Science Elective	3	VCU equivalent	3
Literature Elective	3	VCU equivalent	3
Physical Education/Health Elective	1	VCU elective	1
<b>Total</b>	<b>14-15</b>	<b>Total</b>	<b>14-15</b>
<b>Fourth Semester</b>			
BIO 102 General Biology II	4	BIO1 152 + BIOZ 152	4
Laboratory Science or Advance Math Elective: PHY 202	4	PHYS 202	4
Transfer Elective:	3	VCU equivalent	3
Transfer Elective	2	VCU equivalent	2
Humanities Elective	3	VCU equivalent	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
<b>Total Credits</b>	<b>60-61</b>	<b>Total Credits</b>	<b>59-60</b>

## FORENSIC SCIENCE

JTCC SCIENCE SPECIALIZATION COURSES	CREDITS	VCU COURSE	CREDITS
CHM 111 College Chemistry I	4	CHEM 101 + CHEZ 101	4
ENG 111 College Composition I	3	UNIV 111 + UNIV 112	3
Math Elective: MTH 163	3	MATH 141	3
SDV 100 College Success Skills	1	Not transferable	0
History Elective: (HIS 101, 102, 111, 112, 121, or 122)	3	VCU equivalent	3
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>13</b>
<b>Second Semester</b>			
CHM 112 College Chemistry II	4	CHEM 102 + CHEZ 102	4
ENG 112 College Composition II	3	UNIV 200	3
Math Elective: MTH 164	3	MATH 151	3
History Elective	3	VCU elective	3
Social/Behavioral Science Elective: (PSY 200, SOC 200, SOC 211, PLS 135)	3	VCU equivalent	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
<b>Third Semester</b>			
BIO 101 General Biology I	4	BIOL 151 + BIOZ 151	4
Laboratory Science or Advance Math Elective: CHM 241 + 245, PHY 201, or MTH 157 or 240, or MTH 173	3-5	CHEM 301 + CHEZ 301, PHYS 201, STAT 210, or MATH 200	3-5
Social/Behavioral Science Elective	3	VCU equivalent	3
Literature Elective	3	VCU equivalent	3
Physical Education/Health Elective	1	VCU elective	1
<b>Total</b>	<b>14-16</b>	<b>Total</b>	<b>14-16</b>
<b>Fourth Semester</b>			
BIO 102 General Biology II	4	BIOL 152 + BIOZ 152	4
Laboratory Science or Advance Math Elective: PHY 202 or MTH 174	4-5	PHYS 202 or MATH 201	4-5
Transfer Elective	3	VCU equivalent	3
Transfer Elective	2	VCU equivalent	2
Humanities Elective	3	VCU equivalent	3
<b>Total</b>	<b>16-17</b>	<b>Total</b>	<b>16-17</b>
<b>Total Credits</b>	<b>60-63</b>	<b>Total Credits</b>	<b>59-62</b>

## PHYSICS

JTCC SCIENCE SPECIALIZATION COURSES	CREDITS	VCU COURSE	CREDITS
CHM 111 College Chemistry I	4	CIEM 101 + CHEZ 101	4
ENG 111 College Composition I	3	UNIV 111 + UNIV 112	3
Math Elective: MTH 166	5	MATH 151	5
SDV 100 College Success Skills	1	Not transferable	0
History Elective: (HIS 101, 102, 111, 112, 121, or 122)	3	VCU equivalent	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>15</b>
<b>Second Semester</b>			
CHM 112 College Chemistry II	4	VCU elective	4
ENG 112 College Composition II	3	UNIV 200	3
Math Elective: MTH 173	5	MATH 200	5
History Elective	3	VCU elective	3
Social/Behavioral Science Elective: (PSY 200, SOC 200, SOC 211, PLS 135)	3	VCU equivalent	3
<b>Total</b>	<b>18</b>	<b>Total</b>	<b>18</b>
<b>Third Semester</b>			
Laboratory Science or Advance Math Elective: MTH 174	5	MATH 201	5
PHY 241 University Physics I	4	PHYS 207	4
Social/Behavioral Science Elective	3	VCU equivalent	3
Literature Elective	3	VCU equivalent	3
Physical Education/Health Elective	1	VCU elective	1
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
<b>Fourth Semester</b>			
PHY 242 University Physics II	4	PHYS 208	4
Laboratory Science or Advance Math Elective: MTH 279	4	MATH 301	4
Transfer Elective	3	VCU equivalent	3
Transfer Elective	2	VCU equivalent	2
Humanities Elective	3	VCU equivalent	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
<b>Total Credits</b>	<b>66</b>	<b>Total Credits</b>	<b>65</b>



John Tyler Community College/Virginia Commonwealth University  
2015-2016 Catalog

ARTICULATION AGREEMENT

Associate of Science in General Studies (Science Specialization)

to

Bachelor of Science (B.S.) degree programs in Bioinformatics, Biology, Chemistry, Environmental  
Studies, Forensic Science, Physics, and Health and Exercise Science at Virginia Commonwealth  
University.

**JTCC REVIEWERS:**



Dr. William C. Fiege  
VP of Learning & Student Success

12/8/15  
Date



Dr. Melody Moore  
Dean of Academics & Assessment

12/8/15  
Date



Dr. Johanna Weiss  
Dean of Mathematics, Natural and Health Sciences

12/8/15  
Date

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