

# Thomas Nelson Community College/Old Dominion University

2018-2019 Catalog

## ARTICULATION AGREEMENT

Associate of Science, Science Education to Bachelor of Science Chemistry,  
Virginia Teacher Licensure with Monarch Teach Courses

Thomas Nelson Community College Associate of Science in Science Education				Old Dominion University Equivalency			
ENG	111	College Composition I*	3	ENGL	110C	English Composition	3
SDV	100	Orientation	1	UNIV	100	University Orientation	1
MTH	161	Precalculus I*	3	MATH	162M	PreCalculus I	3
ITE	119	Information Literacy	3	IT	150G	Information Literacy	3
CHM	111	Chemistry I*	4	CHEM	121N/ 122N	Chemistry I	4
Wellness Elective		Elective	2	---	ELE	Elective	2
ENG	112	College Composition II*	3	ENGL	211C	English Composition	3
MTH	162	Precalculus II*	3	MATH	163	PreCalculus II	3
CST	100	Principles of Public Speaking	3	COMM	101R	Public Speaking	3
CHM	112	Chemistry II*	4	CHEM	123N/ 124N	Chemistry II	4
History	Elective	To meet Lower-Division General Education Package	3	HIST	1REQ	Gen Ed History	3
EDU	200	Intro to Teaching and Profession*/**	3	Monarch Teach Courses: TLED 195*/**, STEM 101*/** and STEM 102*/**			3
Social Science	Elective	To meet Lower-Division General Education Package	3	HB	1REQ	Gen Ed Human Behavior	3
Humanities	Elective	To meet Lower-Division General Education Package	3	HC	1REQ	Gen Ed Human Creativity	3
CHM	241&245	Organic Chemistry I w/lab	4	CHEM	211/212	Organic Chemistry I w/lab	4
MTH	263	Calculus I	4	MATH	211	Calculus I	4
CHM	242&246	Organic Chemistry II w/lab	4	CHEM	213&214	Organic Chemistry II w/lab	4
MTH	264	Calculus II	4	MATH	212	Calculus II	4
Social Science	Elective	To meet Lower-Division General Education Package	3	HB	1REQ	Gen Ed Human Behavior	3
Humanities	Elective	To meet Lower-Division General Education Package	3	HC	1REQ	Gen Ed Human Creativity	3
<b>Total Credits for AS Degree</b>			<b>63</b>	<b>Transfer Credits from AS Degree</b>			<b>63</b>
<b>Additional Required Courses for BS Degree</b>				<b>ODU Equivalency</b>			
MTH	265	Calculus III*	4	MATH	312/285	Calculus III	4
PHY	241	Gen Univ. Physics or Univ. Physics I*	4	PHYS	231N	University Physics I	4
PHY	242	Gen Univ. Physics or Univ. Physics II*	4	PHYS	232N	University Physics II	4
<b>Additional Credits Required</b>			<b>12</b>				<b>12</b>

<p><b>*Indicates a departmental requirement at ODU, not automatically satisfied by completion of articulation agreement. Student must earn a C or better.</b></p> <p><b>** Students will cross-register through the Tidewater Consortium to enroll in the Monarch Teach courses offered by ODU at the Peninsula Higher Education Center.</b></p> <p><b>The lower division general education requirements will be met by completion of all courses outlined in this program agreement.</b></p> <p><b>To participate in this articulation agreement please visit Old Dominion University's website to complete The Letter of Intent: <a href="http://www.odu.edu/transfer/vccs">http://www.odu.edu/transfer/vccs</a></b></p> <p><b>Completion of this articulation agreement alone does not guarantee admission to Old Dominion University. All students must meet the requirements set by the Office of Admissions and the Guaranteed Admissions Agreement (GAA). Please visit <a href="http://admissions.odu.edu">admissions.odu.edu</a> for more information regarding guaranteed admission to Old Dominion University.</b></p>	<b>Requirements for BS to be taken at ODU</b>			
	CHEM	321/322	Analytical Chemistry Lecture and Lab	5
	CHEM	351	Inorganic Chemistry	3
	CHEM	331	Physical Chemistry Lecture I	3
	CHEM	332W	Experimental Physical Chemistry I	2
	CHEM	333 & 334W	Physical Chemistry Lecture II and Exp. Physical Chemistry II	5
	CHEM	421 & 422	Instrumental Analysis Lecture and Laboratory	6
	CHEM	441	Biochemistry Lecture	3
	CHEM	449	Environmental Chemistry	3
	CHEM	485	Chemistry and Biochemistry Seminar	1
	CHEM	ELE	400-Level Elective	3
	CHEM	LAB	CHEM Laboratory Elective	2-4
	STEM	201	Knowing and Learning in STEM Ed.	3
	STEM	202	Classroom Interactions in STEM Ed.	3
	STEM	401	Project Based Instruction in STEM Ed.	3
	CHEM	468	Research Methods in Math & Science	3
	STEM	402	Perspectives on Science & Math	3
	STEM	485	Apprentice Teaching	9
	<b>Credits to be taken at ODU</b>			<b>59-61</b>
	<b>SUMMARY</b>			
<b>Transfer Credits from AAS Degree</b>			<b>63</b>	
<b>Additional Credits Required</b>			<b>12</b>	
<b>Credits to be taken at ODU</b>			<b>59-61</b>	
<b>Total Credits</b>			<b>141-143</b>	

Susan English 7/10/19  
Signature Date

Dr. Susan English  
Vice President for Academic Affairs  
Thomas Nelson Community College

[Signature] 7/12/19  
Signature Date

Dr. Brian Payne  
Vice Provost, Academic Affairs  
Old Dominion University